




Catalog 1989–1990





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The American University

1989-1990
Edition

General information catalog
effective Fall 1989

Washington, D.C.

Correspondence Directory

Undergraduate Admission

Office of Admissions and Financial Aid, Hamilton Building

Graduate Admission

Office of Admissions and Admissions, Anderson Hall

Housing

Director of Residential Life, McDowell Hall

Scholarships and Loans

Office of Admissions and Financial Aid, Hamilton Building

Part-Time Employment

Director for Placement, Career Center, Butler Pavilion

Program Information

Appropriate college, school, or department

Records and Transcripts

Office of the Registrar, Asbury Building

International Student Adviser

Office of Intercultural-International Student Services, Butler Pavilion

Financial Transactions

Office of Student Accounts, Asbury Building

News and Public Information

Office of University Relations, Sutton Center

Alumni

Alumni Office, Sutton Center

Student Activities

Division of Student Life, Mary Graydon Center

The American University is published by

The Office of the University Registrar

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In cooperation with

The Office of University Relations

Martha Robinson, Director of University Publications and Printing

Limitations on Catalog Provisions

The educational process necessitates change. This publication must be considered informational and not binding on the university.

Each step of the educational process, from admission through graduating, requires appropriate approval by university officials. The university must, therefore, reserve the right to change admission requirements or to refuse to grant credit or a degree if a student does not satisfy the university, in its sole judgment, that he or she has satisfactorily met its requirements.

Equal Opportunity

The American University provides equal opportunity for all qualified persons in its educational programs and activities. The university does not discriminate on the basis of race, creed, color, national origin, age, handicap, or sex. The policy of equal opportunity applies to every aspect of the operations and activities of the university generally, and that indeed extends to admissions and to employment.

For additional information, call, write, or visit:

Office of Admissions and Financial Aid

The American University

4400 Massachusetts Avenue, N.W.

Washington, DC 20016

(202) 885-6000

Contents

Correspondence Directory	2	Language and Foreign Studies	132
Introduction	5	Literature	138
Enrollment, 1988-1989	9	Mathematics	143
Degrees Conferred, 1987-1988	9	Performing Arts	147
Fields of Study	11	Philosophy and Religion	152
Academic Calendar	13	Physics	155
Undergraduate Study	15	Pre-engineering	157
Admission	15	Prelaw	158
Degrees	19	Premedical	159
Fields of Study	19	Psychology	160
Degree Requirements	20	Sociology	164
Academic Standards	22	Statistics	168
Special Opportunities	24	Women's Studies	171
General Education Program	27	Kogod College of Business Administration	173
Graduate Study	35	School of International Service	183
Admission	35	Washington College of Law	197
Degree Requirements	43	School of Public Affairs	199
Academic Standards	45	Government	201
Nondegree Study	47	Justice, Law, and Society	205
International Student Information	49	Public Administration	209
Tuition, Expenses, and Financial Aid	51	Center for Public Financial Management	213
Tuition and Expenses	51	Interdisciplinary Studies	217
Financial Aid	53	Continuing Studies	221
Graduate Financial Aid	61	Return to School Programs	221
Student Life and Services	65	Credit for Life Experience	221
Division of Student Life	65	Community Studies	221
Student Organizations	68	General Studies	222
Services	70	Certificate Programs	223
General Academic Regulations and Information	71	Off-Campus Offerings	224
General Academic Information	71	Special University Programs	225
General Curricular Information	75	Cooperative Education	225
Confidentiality of Student Records	77	Washington Semester Program	226
Code of Conduct	77	Study Abroad Programs	227
General Information	78	English as a Second Language	228
College of Arts and Sciences	81	Summer Sessions	229
American Studies	83	Other Programs	229
Anthropology	84	Career and Advisement Services	231
Art	87	Courses of Instruction	233
Audio Technology	93	Full-Time Faculty, 1988-1989	345
Biology	94	Adjunct Faculty, 1988-1989	355
Chemistry	98	Research Faculty, 1988-1989	374
School of Communication	102	Administration and Board of Trustees	376
Computer Science and Information Systems	109	Index of Courses and Course-Number Prefixes	377
Economics	114	Index	379
School of Education	120	Campus Map	384
Health and Fitness	126		
History	127		
Interdepartmental Science	130		
Jewish Studies	131		



Introduction

The programs in this catalog reflect The American University's academic tradition and its development as a comprehensive university in the nation's capital.

Chartered in 1891 and incorporated by Act of Congress in 1893, the university was founded as a Methodist-related graduate school of history and public affairs. Today American offers a wide range of graduate and undergraduate degree programs, and nondegree study as well, through its five major divisions: the College of Arts and Sciences, which comprises more than twenty teaching units including the School of Communication and the School of Education; the School of Public Affairs; School of International Service; Kogod College of Business Administration; and Washington College of Law.

Faculty

The distinguished faculty of The American University includes renowned experts and scholars: artists, performers, novelists, scientists, business leaders, and poets of national and international reputation.

To its full-time faculty of 426, the university adds 719 adjunct faculty members drawn from Washington's professional community. A course in government at American might be taught by a White House aide or past presidential candidate, a communication course by a Pulitzer Prize-winning journalist, or a history course by a curator of the Smithsonian. Even heads of state have taught at American.

Resources of Washington, D.C.

The resources of a capital city are unlike any other in the world. Next to government, education is the largest industry in the District of Columbia. Washington has become an important business and financial center, with more associations and trade organizations than New York City. Some 140 foreign embassies and chanceries and the

headquarters of many international organizations are located in the city.

But most important, Washington is a city of learning resources in every discipline, from the arts to the sciences to public affairs. The Smithsonian Institution, the John F. Kennedy Center for the Performing Arts, the National Institutes of Health, the National Library of Medicine, the Library of Congress, the World Bank, the National Archives, the Brookings Institution, the Chamber of Commerce of the U.S.A. are all located in Washington, D.C.

The libraries, museums, and art galleries of Washington contain unsurpassed collections. These resources become sites of research, field trips, internships, cooperative education placements, and part-time jobs. Because of these resources, American's students can put their education to work as they could nowhere else in the country.

The Campus

Massachusetts Avenue runs from the bustle of downtown Washington, through Embassy Row, by the Washington Cathedral, through wooded Glover-Archbold Park, to Ward Circle. Here on the hill where Massachusetts and Nebraska avenues meet, sits the seventy-eight-acre campus of The American University. In a beautiful residential area, the campus is a tranquil setting for study.

As a part of, yet apart from, the city, The American University is near shopping centers and is only a short drive or bus ride to important points around Washington. A subway station is located not far from campus.

The thirty-seven buildings on the campus include the university library and law library, residence halls, an interdenominational religious center, a sports and convocation center, and a campus center.

Tenley Campus, a recently acquired satellite campus located one mile from the university's main site, is the new location of the Washington Semester program.

6 Introduction

University Library

The University Library contains over 500,000 volumes and more than 577,000 microforms. Over 1200 film and video titles and over 4,100 periodical titles are received each year. Special collections include the Artemus Martin Collection of rare materials on mathematics and the Spinks Collection of rare Japanese materials.

On-line bibliographic search services are available at cost through the reference department, which also provides a broad range of bibliographic instruction programs. The library is a member of the OCLC library network, which provides on-line access to bibliographic information and holdings for over seven million items in 2,000 member libraries.

The American University is a member of the Consortium of Universities of the Washington Metropolitan Area (including ten universities and two colleges). Consortium policy permits any currently enrolled graduate-degree student to obtain a consortium card which gives the holder direct borrowing privileges at the main libraries of the other member institutions. Materials not available in the university library may also be requested by graduate students through the interlibrary loan services of the library.

Since January 1979 the library has been housed in the Jack I. and Dorothy G. Bender Library and Learning Resources Center. The facility includes an audio-visual center and microform services.

Science Laboratories

Extensive laboratory facilities in the Beechly Chemistry Building include modern teaching and research laboratories and such specialized facilities as animal rooms, a dark room, a controlled temperature room, and instrument rooms. Spectrophotometers, including nuclear magnetic resonance, mass, ultraviolet, infrared, visible, emission, fluorescence, and atomic absorption, are available.

Research facilities of the Department of Physics, housed in the McKinley Building, include general and advanced laboratories, a minicomputer room, electronics and audio technology equipment, a recording studio, an electronic-music studio, a machine shop, and Mossbauer, critical phenomena, kinetic molecular, and laser laboratories. Nuclear research is carried out under a cooperative arrangement with the Stanford Linear Accelerator Center.

The undergraduate teaching laboratories of the Department of Biology were recently remodeled with new equipment and modern instrumentation. Cooperative agreements with various government laboratories make possible opportunities for environmental and ecological research.

Language Laboratory

The language laboratory in the Asbury Building can serve up to ninety students simultaneously using audio, video, still-film, and computer-assisted instruction. This facility of the Department of Language and Foreign Studies is open to the entire university community for instruction and research involving both languages and educational media.

Media Center

The Media Center includes the 100-seat Mark Wechsler Theatre for video and film projection and analysis.

Music

The Kreeger Music Building, housing the Department of Performing Arts has 25 practice rooms, 20 of them with pianos, a chamber-music recital hall seating 130, and one large rehearsal space. Housed within the building is the Record-Score Collection administered by the university library. It has facilities for TV tape viewing and record and tape listening. Available through the university library and music library are over 10,000 volumes of music scores and books and over 10,000 disc recordings. Housed elsewhere in the building is a large collection of choral, orchestral, jazz, and symphonic wind scores.

Art

The Art Department is housed mainly in the Watkins Art Building with additional classrooms and studio space in the McKinley Building. There are classrooms with special equipment to handle drawing, painting, printmaking, etching, sculpture, design, and ceramics classes as well as art history classes. The department also maintains the Watkins Gallery, a long-established gallery with changing exhibitions, including the Watkins Collection and works by faculty, students, and other artists.

Radio

WAMU-FM is the public radio service of The American University. A 50,000 watt, twenty-four-hour FM station with listeners throughout the Washington-Baltimore area, WAMU-FM offers a diverse, commercial-free radio service 365 days a year. WAMU-FM is financed through funds from The American University, public and private grants, and contributions by the listening public. The station is a member of National Public Radio. American University work-study students aid the director, assist in writing news clips, and contribute to research and development efforts. Among public radio stations WAMU-FM ranks in the country's top five in terms of total listenership.

WVAU-AM is an on-campus station run entirely by students. It offers music, news, and public affairs coverage twenty-four hours a day.

Computing Center

The Computing Center serves the research and instructional needs of both faculty and students for micro and mainframe computing resources. Services are available twenty-four hours a day. There are no charges to registered students for academic use of the resources. The mainframe computers are an IBM 4381 dual processor system and an IBM 9375. Both systems are accessible via telephone modem or in on-campus laboratories. Microcomputers are available in eleven computer laboratories across campus, all supported with technical staff to assist in using a broad spectrum of standard applications. Throughout the year the center and labs offer noncredit classes on using the university's hardware and software.

Recreational Facilities

The university maintains on-campus facilities for a variety of recreational activities. The sports and convocation center has a natatorium with two pools; two weight rooms; a wrestling, karate, exercise, and fitness studio; two racquetball courts; two squash courts; four basketball courts; a volleyball court; and four badminton courts.

Outdoor facilities include tennis courts with hitting boards, softball diamonds, a hockey field, and an all-purpose intramural and recreational field.

The Consortium of Universities

The Consortium of Universities of the Washington Metropolitan Area combines the resources of ten area universities and two colleges. American University students may take courses for residence credit at any other consortium institution and may borrow from any consortium library. In addition the consortium sponsors student loan programs, the Consortium Research Fellows program, the Center for Advanced Studies of the Americas (CASA), DC Law Students in Court (DCLSIC), and the National Institute for Citizen Education in the Law (NICEL).

University Profile

Historical Origins

Chartered in 1891; incorporated by Act of Congress in 1893 as a Methodist Church-related institution. First building completed in 1898; first graduating class, 1916.

Character

Independent, coeducational.

Location

Residential area of Northwest Washington, D.C.

Academic Programs

55 Bachelor's programs.

70 Master's programs.

16 Doctoral programs.

J.D. and LL.M.

Also an associate degree program and undergraduate and graduate certificate programs.

Academic Divisions

College of Arts and Sciences: twenty-two teaching units including the schools of communication and education.

Kogod College of Business Administration.

School of International Service.

Washington College of Law.

School of Public Affairs: departments of government; justice, law, and society; and public administration; and Center for Public Financial Management.

Special Programs

Cooperative education and internships on undergraduate and graduate levels.

Study abroad programs: undergraduate and graduate opportunities for short-term or extended study in England, Europe, China, and Latin America.

Washington semester programs in American government, art and architecture, foreign policy, peace and conflict resolution, economic policy, justice, and journalism.

Consortium of Universities of the Washington Metropolitan Area: Courses not offered by The American University may be taken for credit, by special arrangement, at any one of the eleven other Washington, D.C., colleges and universities.

Office of Continuing Studies: graduate, undergraduate, and noncredit programs, courses, and workshops.

Calendar

Two semesters, summer sessions.

Student/Faculty ratio

15:1.

Number of Faculty

426 full-time faculty, 719 part-time faculty (most of whom are professionals working in their subject fields). Of full-time faculty, 74% hold doctoral degrees or the highest degree in their field.

Freshman Profile

Fall 1988 entering freshmen had average combined SAT scores of 1140; 68% of these 1237 new freshmen had high-school grade-point averages above 3.0.

Financial Aid

Approximately 60% of the student body receives some form of financial aid.

Facilities/Physical Plant

The 78-acre campus has 16 classroom buildings, 7 residence halls and an off-campus apartment complex, a library, a computer center able to accommodate 3,000 users each semester, a broadcast center, a student union, an interdenominational religious center, and recreational facilities.

8 Introduction

Student Services

Career Center, Psychological and Learning Services, Child Development Center, and Student Health Center.

Library

504,544 volumes; 579,137 microforms; 4,110 periodicals; 10,876 nonprint media materials; on-line databases through BRS and Dialog.

Students have access to holdings at many national libraries in the nation's capital; graduate-degree students may have borrowing privileges at other college and university libraries in the Washington consortium.

Law Library

138,748 volumes; 597,910 microforms; Lexis, Westlaw, BRS, Dialog, ELSS, Autocite, Vutext databases.

Extracurricular activities

Wide range of clubs and organizations, fraternities and sororities, and varsity, recreational, and intramural sports.

Residence Hall

Seven residence halls accommodate 3,100 students each year. On-campus living is optional. One dormitory houses both American and international students.

An apartment building housing 150 graduate students is located within a mile of the campus.

Admission

Freshman—based on secondary school record, SAT or ACT scores, and relevant achievement tests for some fields. Early-decision admission offered.

Transfer—secondary and/or college records, SAT score.

Graduate—bachelor's degree from accredited institution, undergraduate and graduate records, GPA average, and other standards where applicable.

Accreditation

The American University is accredited by the Middle States Association of Colleges and Secondary Schools. It is recognized by the National University Extension Association, the Adult Education Association of the U.S.A., and the University Senate of the United Methodist Church.

Several programs are also individually accredited by professional organizations, including:

School of Education—National Council for Accreditation of Teacher Education and the National Association of State Directors of Teacher Education and Certification (both elementary and secondary).

Department of Computer Science and Information Systems—Computer science program accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board.

Department of Chemistry—American Chemical Society.

Department of Psychology (doctoral training program in clinical psychology)—American Psychological Association.

School of Communication—B.A. program in Communication (broadcast journalism, print journalism, and public communication), Accrediting Council on Education in Journalism and Mass Communications. M.A. program in Journalism and Public Affairs, American Council on Education for Journalism.

School of International Service is a member of the Association of Professional Schools of International Affairs.

Enrollment 1988–1989 Academic Year

Full-time undergraduates	5,485
Part-time undergraduates	543
Full-time and part-time graduate students including Washington College of Law	4,155
Nondegree students	1,476
Total	11,659

Degrees Conferred 1987–1988

<i>College/School</i>	<i>Associate</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Ph.D.</i>	<i>Ed.D.</i>	<i>J.D.</i>	<i>Total</i>
Arts and Sciences, College of	6	463	332	62	0	–	863
Business Administration, Kogod College of	–	284	178	–	–	–	462
International Service, School of	–	237	113	7	–	–	357
Law, Washington College of	–	–	47	–	–	277	324
Public Affairs, School of	0	174	137	–	–	–	311
Business Administration, Kogod College of, and Arts and Sciences, College of, jointly conferred	–	–	16	–	–	–	16
<i>University Total</i>	6	1,158	823	69	0	277	2,333



Washington, D.C., is a classroom for students from many fields of study.

Fields of Study

Undergraduate

Accounting (B.S.B.A.)
 American Studies (B.A.)
 Anthropology (B.A.)
 Art History (B.A.)
 Audio Technology (B.S.)
 Biology (B.S.)
 Business Management Information Systems (B.S.B.A.)
 Chemistry (B.S.)
 Communication (B.A.)
 Communication, Legal Institutions, Economics, and Government (B.A.)
 Computer Information Systems (B.S.)
 Computer Science (B.S.)
 Design (B.A.)
 Distributed Science (B.S.)
 Economic Theory (B.A.)
 Economics (B.A.)
 Education, Elementary (B.A.)
 Finance (B.S.B.A.)
 Fine Arts (B.F.A.)
 Foreign Language and Communication Media (B.A.)
 French Studies (B.A.)
 French/West European Area Studies (B.A.)
 General Studies (A.A., B.G.S.)
 German Studies (B.A.)
 German/West European Area Studies (B.A.)
 History (B.A.)
 Human Resource Management (B.S.B.A.)
 Interdisciplinary Studies (B.A., B.S.)
 International Business (B.S.B.A.)
 International Studies (B.A.)
 Jewish Studies (B.A.)
 Justice (B.A.)
 Law and Society (B.A.)
 Literature (B.A.)
 Literature: Cinema Studies (B.A.)
 Marketing (B.S.B.A.)
 Mathematics (B.S.)
 Mathematics, Applied (B.S.)

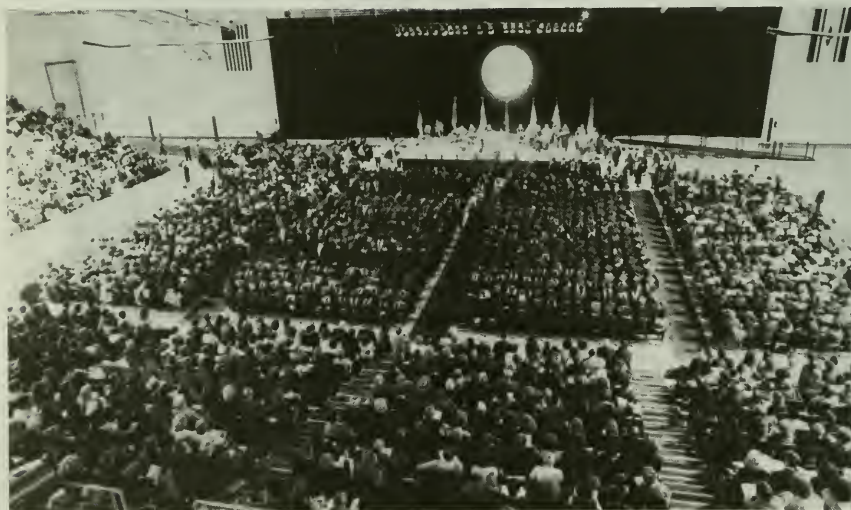
Music (B.A., B.Mus.)
 Performing Arts: Theatre (B.A.)
 Philosophy (B.A.)
 Physics (B.S.)
 Political Science (B.A.)
 Psychology (B.A.)
 Real Estate and Urban Development (B.S.B.A.)
 Religion (B.A.)
 Russian Studies (B.A.)
 Russian/USSR Area Studies (B.A.)
 Sociology (B.A.)
 Spanish/Latin American Area Studies (B.A.)
 Spanish Studies (B.A.)
 Statistics (B.S.)
 Studio Art (B.A.)

Graduate

Accounting (M.B.A., M.S.)
 Anthropology (M.A., Ph.D.) ①
 Anthropology, Applied (M.A.)
 Art History (M.A.)
 Biology (M.A., M.S.)
 Business Management Information Systems (M.B.A.)
 Chemistry (M.S., Ph.D.) ②
 Communication: Journalism and Public Affairs (M.A.)
 Communication: Public Communication (M.A.)
 Computer Science (M.S.)
 Counseling and Development (Ed.D., Ph.D.) ③
 Creative Writing (M.F.A.)
 Development Banking (M.A.)
 Development Management (M.S.)
 Economic Communication (M.A.)
 Economics (M.A., Ph.D.) ④
 Economics, Applied (M.A.)
 Education, General (Ph.D.) ⑤
 Educational Administration (M.Ed., Ed.D., Ph.D.) ⑥
 Education, Elementary (M.A.)
 Film and Video (M.A.)

12 Fields of Study

Finance (M.B.A.)
 French Studies (M.A.)
 Health/Fitness Management (M.S.)
 History (M.A., Ph.D.) ⁷
 History of Religions: Hindu Tradition (M.A.)
 Human Resource Development (M.S.H.R.)
 Human Resource Management (M.B.A.)
 Information Systems (M.S.)
 Interdisciplinary Studies (M.A., M.S.)
 Interdisciplinary Studies: Environmental
 Toxicology (M.S.)
 International Affairs (M.A.)
 International Business (M.B.A.)
 International Communication (M.A.)
 International Development (M.A.)
 International Legal Studies (LL.M.)
 International Relations (Ph.D.) ⁶
 Justice (M.S.)
 Law (J.D.)
 Linguistics (M.A.)
 Literature (M.A.)
 Marketing (M.B.A.)
 Mathematics (M.A.)
 Mathematics, Applied (M.A.) ⁹
 Mathematics Education (Ph.D.) ⁹
 Music (M.A.)
 Painting (M.F.A.)
 Performing Arts: Arts Management (M.A.)
 Performing Arts: Dance (M.A.)
 Philosophy (M.A.)
 Philosophy and Social Policy (M.A.)
 Physics (M.S., Ph.D.) ¹⁰
 Political Science (M.A., Ph.D.) ¹¹
 Printmaking (M.F.A.)
 Procurement Management (M.B.A., M.S.)
 Psychology (M.A., Ph.D.) ¹²
 Psychology, General (M.A.)
 Public Administration (M.P.A., Ph.D.) ¹³
 Public Financial Management (M.P.F.M.)
 Real Estate and Urban Development (M.B.A.)
 Russian Studies (M.A.)
 Science Teaching (M.S.S.T.)
 Sculpture (M.F.A.)
 Secondary Teaching (M.A.T.)
 Sociology (M.A., Ph.D.) ¹⁴
 Spanish Studies (M.A.)
 Special Education: Emotional Disturbance (M.Ed.)
 Special Education: Learning Disabilities (M.Ed.)
 Statistical Computing (M.S.)
 Statistics (M.A., Ph.D.) ¹⁵
 Student Development in Higher Education (M.Ed.)
 Taxation (M.S.)



Winter Commencement, Bender Arena

Academic Calendar

1989-1990

The official calendar for each academic term is published in detail in the *Schedule of Classes*. Faculty members and students should consult this source for final information about the academic year. The university reserves the right to change any published calendar.

Fall 1989

March 27-Aug. 4	Advance registration (with billing) for Fall 1989.
Aug. 7-Sept. 1	Direct registration (with payment) for Fall 1989.
September 4	Labor Day holiday. University offices closed.
September 5	Fall 1989 semester begins.
Oct. 30-Dec. 8	Advance registration (with billing) for Spring 1990.
November 23-26	Thanksgiving holiday. No classes; university offices closed.
December 11	Direct registration (with payment) for Spring 1990 begins.
December 13	Classes end.
December 14-15	Study days.
December 16-22	Final examinations.

Spring 1990

January 12	Direct registration (with payment) for Spring 1990 ends.
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January 15	Martin Luther King Jr.'s Birthday. University offices closed.
January 16	Spring 1990 semester begins.
January 28	Winter commencement.
March 10-18	Spring break.
April 30	Classes end.
May 1-2	Study days.
May 3-9	Final examinations.
May 12	Honors convocation.
May 13	Spring commencement.

Summer 1990

May 14	First three-, six-, and seven-week sessions begin. Ten-week session begins.
May 28	Memorial Day holiday. No classes; university offices closed
June 1	Three-week session ends.
June 22	First six-week session ends.
June 29	First seven-week sessions ends
July 2	Second six- and seven-week sessions begin.
July 4	Independence Day holiday. No classes; university offices closed.
July 20	Ten-week session ends.
August 10	Second six-week session ends.
August 17	All remaining sessions end.



American University literature professor Henry Taylor, recipient of the 1986 Pulitzer Prize for poetry.

Undergraduate Study

Admission

Application for Admission

Application for admission to undergraduate degree programs may be made for any fall, spring, or summer term.

The applicant is required to submit the application form and a nonrefundable application fee of \$35. Forms may be obtained by writing or telephoning the Office of Admissions and Financial Aid.

Applications and all supporting documents must be on file in the Office of Admissions and Financial Aid by the following dates:

Freshman

Fall

Early Decision—November 15

General Admission—February 1

Spring—December 1

Summer—April 15

Transfer

Fall

August 1 (February 1 to be considered for financial aid)

Spring—December 1

Summer—April 15

The applicant is responsible for requesting that official transcripts and test scores be sent directly from the issuing institutions to The American University, Office of Admissions and Financial Aid.

Transfer applicants must request each collegiate institution previously attended to send directly to the Office of Admissions and Financial Aid an official transcript of all work done. Attendance at all institutions must be reported *whether or not credit was earned* and whether or not transfer credit is desired. Failure to report all previous academic work will be considered sufficient cause for rejection of an application or for dismissal from the university.

High-school seniors usually apply in the fall of their senior year. The application deadline has been established to ensure that all applications received by that date will also be considered for financial aid and housing. Applications received after the deadline will be considered for the intended program of study as long as class space remains and if it is possible to receive and process the necessary documents in time for registration. Also, persons applying after February 1 should understand that financial aid and housing may not be available to them for the fall term.

Early Admission

The American University offers the opportunity for admission a year earlier than normal to freshman applicants whose ability, academic achievement, and general maturity indicate that they are ready to begin collegiate work. Such applicants must fulfill in general the requirements set out above.

The Office of Admissions and Financial Aid will send information to secondary-school principals, counselors, or students who inquire about such admission. Applicants are considered on their own merit. However, major factors important to evaluation are:

1. the secondary school record, with special reference to grades achieved and the pattern of courses taken;
2. performance on the College Entrance Examination Board Tests or the American College Tests;
3. the recommendations of the secondary school principal and counselor;
4. a letter from the applicant stating the reasons for seeking early admission;
5. possibly, an interview with a screening committee.

Early Decision

Freshman applicants whose first choice is The American University are encouraged to apply as early-decision candidates. Students admitted under the early-decision plan learn of their admission by December 15 and receive first consideration for housing and financial aid. The university, in turn, is assured that these students will enroll if admitted.

The deadline for applying for early decision is November 15, at which time all documents, including the \$35 application fee, must be on file with the Office of Admissions and Financial Aid. Early-decision applicants may initiate applications to other schools before notification on December 15, but if they are admitted to The American University as early-decision candidates, they must submit a tuition deposit and withdraw all applications to other colleges and universities.

Early-decision applicants are evaluated by the same criteria as all other freshman applicants. They may be admitted to the university in December, denied admission, or have their application deferred until the general-admission reply date of April 15. Students deferred until April are released from the commitment to attend if admitted.

Campus Visits and Interviews

Prospective students are invited to visit the university but are not required to do so. Students are asked to make an appointment with the Office of Admissions and Financial Aid three weeks in advance if by mail, two weeks if by telephone.

Prospective freshmen participate in small-group conferences conducted by an admission counselor, who will review admission policy and procedure and answer questions about the university. Applicants should be prepared to complete a brief description of their academic qualifications, i.e., academic average, College Board scores, and rank in class.

Campus tours are usually available for visitors before or after the conference. However, during holiday periods when the university is not in session, it may not be possible to gain access to classroom buildings and dormitories, and tour guides may not be available. At those times the university offers visitors a campus map so that they may guide themselves.

Students attending another college or university who are interested in transferring to The American University may make appointments in advance for individual conferences with an admission counselor. A transfer student should either have an official transcript of previous work forwarded to the Office of Admissions and Financial Aid before the visit or bring a personal copy for use in the conference.

The Office of Admissions and Financial Aid is usually able to arrange classroom visits for prospective students when the request has been made well in advance. However, a visitor may attend classes with a friend enrolled at the university if permission of the professor has been granted in advance. Saturday class offerings are very limited.

The Office of Admissions and Financial Aid will make every effort to arrange overnight accommodations for prospective students in university dormitories. Visitors requesting overnight housing are asked to telephone the admissions office two weeks in advance. The admissions office can also provide a list of motels and hotels convenient to the campus.

Notice of Admission

General and early admission applicants whose applications and supporting documents have been received by the Office of Admissions and Financial Aid by February 1 are notified of the decision on their applications by April 15.

Early-decision applicants are notified of the decision by December 15; at that time early-decision applicants may be admitted, denied admission, or deferred until the general admission date of April 15.

Transfer applicants are notified of decisions as they are made.

Full-time undergraduates entering in the fall semester are required to pay a nonrefundable tuition deposit to reserve a place in the class.

Complete detailed instructions for replying to the admission offer are furnished with the notice of acceptance.

Learning Disabled Program

The American University offers a comprehensive support program for learning-disabled students. Applicants to this program are evaluated according to their individual backgrounds and needs. Often the Office of Admissions and Financial Aid will request additional information from learning-disabled applicants. For this reason, learning-disabled students are encouraged to submit their applications with all supporting documents as early as possible. Application materials should be mailed to: Special Admissions Committee for Learning Disabled Students, Office of Admissions and Financial Aid, The American University, 4400 Massachusetts Avenue, N.W., Washington, DC 20016-8001.

Further information about The American University's support program for learning-disabled students can be obtained from the Office of Admissions and Financial Aid or the Center for Psychological and Learning Services.

Freshman Admission Requirements

A graduate of an approved secondary school who has completed fifteen academic units—including at least four units in English and three units in college preparatory mathematics, including the equivalent of two units in algebra—will be considered for freshman standing.

The following College Entrance Examination Board Tests should be taken as early as possible in the senior year; applicants should request that official score reports be sent directly to the Office of Admissions and Financial Aid.

1. Scholastic Aptitude Test (required)
2. English Composition Achievement Test (recommended for placement)
3. Foreign Language Achievement Test: Applicants who plan to continue the study of a foreign language that was begun in secondary school may wish to submit scores on the appropriate test to be used in placing the student at the proper level of work. The

test should be taken as early as January if possible, but no later than May for fall admission.

4. Mathematics Achievement Test (Level I or Level II): It is recommended that the test be taken by any freshman applicant whose intended major program of study will require the completion of course work in mathematics or statistics.

Additional achievement test scores may be submitted (no later than May for fall admission) at the discretion of the applicant.

The American College Test scores are an acceptable alternative if the student does not plan to take the Scholastic Aptitude Test.

The American University may require applicants, regardless of citizenship, to take an English language proficiency examination if they are most fluent in a language other than English. The Office of Admissions and Financial Aid will notify applicants who need to take the Test of English as a Foreign Language (TOEFL) or the English Language Institute placement test (offered on the campus of The American University).

Equivalency Diploma

Holders of equivalency diplomas issued by state departments of education are eligible for consideration as freshmen but are subject to an entrance examination (SCAT, SAT, or ACT) at the request of the Office of Admissions and Financial Aid.

Veterans or current members of the armed forces who have taken the General Education Development Test (GED), the Comprehensive College Test, or the General Examinations of the College Level Examination Program should apply to their state departments of education for equivalency diplomas. Official certification of the diploma should be sent by the state department of education directly to the Office of Admissions and Financial Aid.

Advanced Placement

Freshman applicants may earn advanced-standing credit which may be used toward degree requirements.

1. The College Entrance Examination Board's Advanced Placement Program: In some secondary schools, enriched courses are offered under this program. On the basis of scores achieved in the special examinations given, the applicant may be granted actual college credit or advanced placement in courses. A maximum of thirty credit hours earned on this basis may be applied towards a bachelor's degree.
2. The College Level Examination Program (CLEP): Credit may be earned for superior performance in the following subject-matter examinations: American Government, American History I or II, American Literature, Analysis and Interpretation of Literature, Biology, Calculus with Elementary Functions, College Composition, College French levels one and two, College German levels one and two, College Spanish levels one and two, Computers and Data Processing, Educational Psychology, English Literature, General Chemistry, General Psychology, Human Growth and Development, Introduction to Management, Introductory Accounting, Introductory

Marketing, Introductory Macroeconomics, Introductory Microeconomics, Introductory Sociology, Tests and Measurements, and Western Civilization I and II.

3. Students presenting a 4 or 5 on the Advanced Placement Biology, Chemistry, or Physics examinations may earn credit for the General Education Requirement in Curricular Area V: The Natural Sciences. No other Advanced Placement credit may be used to meet the thirty credit hours of General Education Requirements in the five curricular areas. No CLEP credit may be used to meet the thirty credit hours of General Education Requirements in the five curricular areas.

From time to time, additional subject-matter examinations are added to those listed above. For complete details on the CLEP at The American University, write the Office of Admissions and Financial Aid.

Credit may be earned in a combination of the above programs, but duplicate credit will not be given.

School of International Service

In addition to standards and procedures pertaining to freshman admission at The American University, candidates for admission to the School of International Service must present evidence of outstanding personal and academic qualifications. Eligibility for freshman consideration normally requires a minimum 3.00 grade-point average in secondary school, computed on academic courses only. Other considerations are leadership qualities, character, and personal interest.

Transfer Admission Requirements

To be considered for transfer admission, applicants normally should have maintained at least a 2.00 grade-point average (on a 4.00 scale) or the equivalent at an AG-rated regionally accredited institution or a Recognized Candidate for Accreditation or at least a 3.00 average from an AP-rated regionally accredited institution. Transfer applicants should be in good academic and social standing at the school previously attended.

Transfer applicants with fewer than twenty-four hours of credit completed at the time of application should also submit the secondary school record and College Board scores.

Applicants to the School of International Service should have maintained a minimum of 3.00 grade-point average (on a 4.00 scale).

Applicants to the School of Communication should have a minimum 2.50 grade-point average.

Applicants to the School of Education should present a minimum of 2.70 grade-point average.

Transfer applicants who are also applying for financial aid should submit their admissions applications and supporting documents by February 1 for fall entrance. All financial aid documents should be on file with the Office of Admissions and Financial Aid by March 1.

The American University may require transfer applicants, regardless of citizenship, to take an English lan-

guage proficiency examination if they are most fluent in a language other than English. The applicant will be notified by the Office of Admissions and Financial Aid if he or she needs to take the Test of English as a Foreign Language (TOEFL) or the English Language Institute placement test (offered on campus at The American University).

Transfer of Credit

The Office of Admissions and Financial Aid evaluates official documents showing previous college-level work completed and is liberal in accepting credit earned in the past. Nonetheless, a student who has not been engaged in formal study for a number of years or whose study has been intermittent, at The American University or elsewhere, must understand that full credit will not necessarily be granted for past work simply because it is a matter of record.

Transfer students may normally expect to receive credit for courses taken at collegiate institutions that were, at the time the courses were taken, regionally accredited or Recognized Candidates for Accreditation. These courses must have been completed with grades of C or better from an AG-rated institution or B or better from an AP-rated institution and must be appropriate for academic credit at The American University towards an undergraduate-degree program.

A maximum of seventy-five hours of credit, or the equivalent, will be accepted on transfer from four-year collegiate institutions as designated above. A maximum of sixty credit hours will be accepted from a two-year collegiate institution as designated above.

A maximum of thirty credit hours, or the equivalent, may be accepted on transfer for a combination of relevant work completed satisfactorily in Armed Services School courses or any Military Occupational Skills (MOS) completed with a grade of 70 or better, both as recommended for baccalaureate credit by the American Council on Education or for associate or baccalaureate credit as recommended by the Defense Activity for Non-Traditional Educational Support (formerly United States Armed Forces Institute).

A maximum of thirty credit hours may be granted for a combination of relevant work completed in (a) college-level nondegree, extension, or correspondence courses with grades of C or better offered through an AG-rated institution, or from an AP-rated institution with a grade of B or better, provided the course is recognized by that institution for credit towards a degree and that is appropriate for academic credit as understood by the Office of Admissions after consultation with the appropriate academic unit where necessary; (b) for courses satisfactorily completed in noncollegiate (but not Armed Forces) organizations that are recommended at the baccalaureate level by the American Council on Education.

Transfer students may be awarded credit for satisfactory scores in subject-matter tests of the College Level Examination Program. (See details and information on advanced placement under "Freshman Admission Requirements" above.) A maximum of seventy-five credit hours may be transferred toward a bachelor's degree.

Grades and quality points earned in courses accepted for transfer will not be included in the grade-point average to be maintained at The American University, but the cred-

its will count toward the total number required for graduation.

Admission from Nondegree Status

Students wishing to transfer from nondegree status at The American University to undergraduate degree status must submit a formal application for admission to an undergraduate program through the Office of Admissions and Financial Aid. If a student is accepted into an undergraduate degree program, a maximum thirty credit hours of credit may be transferred from nondegree status to the degree program. If the student is denied admission to an undergraduate program, the student may not register at The American University for further courses.

Admission for Part-time Study

A student enrolled in fewer than twelve credit hours is considered a part-time student.

Applicants considering part-time study in a degree program are cautioned that they may be unable to complete the necessary course work for degrees by attending evening classes only. Before applying they should consult with the department chair in disciplines of their proposed majors to ascertain whether the required courses will be available to them.

Part-time degree applicants are required to meet the same standards for admission as full-time applicants, and should follow the instructions under either "Freshman Admission Requirements" or "Transfer Admission Requirements" above, whichever is appropriate, with the following exceptions pertaining to College Board Tests:

1. Freshman applicants who have taken College Board Tests within the past five years are required to communicate with the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540; or Box 1025, Berkeley, California 94701, to request that official scores be sent directly to The American University, Office of Admissions and Financial Aid.
2. If the applicant completed secondary school within the past two years and did not take College Board Tests, the applicant must arrange to do so. Information on how to apply may be obtained from the College Entrance Examination Board.
3. If the applicant completed secondary school more than two years ago and did not take College Board Tests, the applicant may be asked to take an alternative examination at the direction of the Office of Admissions and Financial Aid.
4. The American College Tests are accepted in lieu of the College Board Tests.

Readmission

An undergraduate student whose studies at the university are interrupted for any reason for a period of one semester (excluding the summer sessions) other than an

approved leave of absence must submit a formal application for readmission to the Office of Admissions and Financial Aid at least two months before the beginning of the semester or summer session for which the student wishes to be readmitted, unless written permission to study at another collegiate institution was secured in advance or the student has been granted an official leave of absence. (See "University Degree Requirements" below.)

Students who were in good standing when they left the university and who have maintained a satisfactory grade-point average at another school are virtually assured readmission. It is to a student's advantage to apply for readmission as early as possible so that he or she may advance register.

A student who is readmitted is subject to the academic requirements and regulations in effect at the time of readmission. Students applying for undergraduate readmission must pay a fee of \$35.

Degrees

Associate Degree

The Associate in Arts degree requires the completion of at least sixty credit hours. At least twenty-four of the last thirty credit hours applied to the degree must be taken in residence at The American University. A maximum of thirty-six credit hours may be transferred to the degree.

Students must complete at least 24 hours of courses in the General Education Program to include one foundation course in each of the five curricular areas and one second-level course in each of three of the five curricular areas. Students must also fulfill the College Writing and English Competency Requirement and the College Mathematics and Quantitative Competency Requirement.

For detailed information on requirements, see "University Degree Requirements" below.

Bachelor's Degrees

The university offers seven bachelor's degrees: Bachelor of Arts, Bachelor of Fine Arts, Bachelor of General Studies, Bachelor of Music, Bachelor of Science, Bachelor of Science in Business Administration, and Bachelor of Science in Technology of Management.

All bachelor's degrees require completion of at least 120 credit hours of course work. At least forty-five credit hours out of the last sixty must be completed in residence at The American University. A minimum of fifteen credit hours must be completed at The American University in upper-level courses in the student's major. A maximum of seventy-five hours may be transferred towards a bachelor's degree.

Within the total 120 credit hours, students must fulfill a six-hour College Writing and English Competency requirement, a three-hour College Mathematics and Quantitative Competency requirement, a thirty-hour General Education requirement, and requirements for a major.

For detailed information on requirements, see "University Degree Requirements" below.

Two Undergraduate Degrees

Two undergraduate degrees may be conferred if a student satisfies both major and major-related requirements within two departments or schools and accrues at least 150 credit hours.

In order to be eligible for the second bachelor's degree, the student must apply for admission to the second degree program, preferably by the end of the junior year. If the student is granted admission to the second program, then upon completion of all requirements for the first program and the award of the first degree, the student's status will be changed to the second program. The student must again apply for graduation to be granted the second degree.

Bachelor's/Master's Degrees

Some departments offer programs which allow students to earn both a bachelor's and a master's degree in a planned program of study during the third and fourth undergraduate years and first graduate year.

Students are admitted to each level according to requirements established by the teaching unit.

Six graduate credit hours may be applied to the requirements for both degrees. For graduate programs requiring more than thirty-six credit hours, the number of hours applicable to both degrees may be increased.

Fields of Study

Major Requirements

Each undergraduate must complete at least thirty-six credit hours in the degree major and related courses, no fewer than fifteen of which must be earned in upper-level courses taken in residence at The American University.

A grade of C (2.00) or better is required for each course in the major. Students should note that a C- does not qualify and any course with a C- or lower will have to be repeated or an equivalent course taken to satisfy the major requirement involved. Courses in the major may not be taken on a pass-fail basis without the special permission of the student's dean or department chair.

Declaration of Major

By the end of the sophomore year, if not before, each student must choose and declare an academic major. Formal declaration of the major is required on a form available from the dean's, departmental, or registrar's office.

Admission to the university in an undergraduate program does not automatically constitute admission to a major program. Acceptance is official only when specific approval has been granted by the department or program

chair or designee and recorded by the Office of the Registrar.

Double Majors

A student can complete a double major by satisfactorily passing the major and major-related course work required by two departments or schools.

If the double major is pursued in two schools, the student must designate when declaring the two majors which school he or she will be registered in and graduated from. The student will need to satisfy the general requirements of that school only. If a student is majoring in two recognized majors that lead to different degrees (e.g., B.A. and B.S.), the student specifies which of the two degrees is to be awarded.

A student may apply the same course to both major programs if it fits into both sets of requirements.

Interdisciplinary Majors

Students for whom none of the established majors is suited may construct their own major programs leading to B.A. or B.S. degrees.

To design and complete an interdisciplinary major a student must have the advice and approval of three faculty members: one major adviser (who must be a full-time faculty member) and two sponsors. The three faculty members should represent the various disciplines involved in the interdisciplinary field. The major faculty adviser will advise the student actively for the rest of the student's undergraduate career. The two sponsors will assist the major faculty adviser in areas outside the adviser's field.

Interdisciplinary major programs must include at least forty-two credit hours including six credit hours in independent study or senior seminars and thirty-six credit hours selected to form an academically sound, unified, and well-defined program. At least 75% of the thirty-six credit hours must be upper level as defined by the teaching units that offer them. Students are encouraged to include at least two 500-level courses, although in some areas this may not be possible. A maximum of eighteen credit hours of work completed prior to the semester in which application is made may be included in the program.

The two independent study courses or senior seminars (six credit hours) must be supervised by the major adviser and must be focused on the program's central concept.

For permission to undertake an interdisciplinary major, the student applies to the dean of the school or college in which he or she is enrolled.

For more information see "Interdisciplinary Studies" in this publication.

Changes in Field of Study

A student who wishes to change from one college or school to another, or from one major to another, must receive the permission of the dean or department chair in charge of the program to which the student wishes to transfer. This is done on forms available from the dean's

or departmental offices and filed in the Office of the Registrar. A change in college, school, or major affiliation, when approved, does not become effective until the beginning of the next semester. It does not become effective if the student is suspended or dismissed. A student who changes field of study may lose credit already earned in other study that is not appropriate to the new program.

Minors

Minor programs may be established by teaching units in any area for which there is an analogous major. All minor programs consist of eighteen to twenty-four credit hours, including at least nine credit hours at the 300 level or above. Not more than six credit hours may be used to satisfy simultaneously the requirements of both a major and a minor. For all minors offered by the College of Arts and Sciences, at least nine credit hours of the stated requirements must be taken in residence at The American University.

A grade of C (2.00) or better is required for each course used to satisfy the requirements of a minor.

Graduation clearance for minors follows procedures analogous to those for majors. Formal declaration of minor is made at the time of the student's application for graduation clearance. Minors will be posted on the student's permanent record at the time of graduation but will not appear on the student's diploma.

Specific course requirements for individual minors are listed along with the descriptions of the analogous majors in this publication.

Interdisciplinary Minors

Students may also earn an interdisciplinary minor by completing an individually constructed program satisfying the requirements stated above and consisting of courses from different disciplines united by a common theme and modeled after interdisciplinary majors. Students should consult their deans' offices for additional information.

University Degree Requirements

It is university policy that no student shall be involuntarily subject to regulations and academic requirements introduced during the student's continuous enrollment in good standing in a single degree program if the new regulations involve undue hardships or the loss of academic credits earned to satisfy the requirements previously in effect.

Undergraduate students are governed by the following minimum requirements for the undergraduate degree (each teaching unit may have further major and major-related requirements). Undergraduate students are advised to consult their own adviser, department chair, or dean for detailed information.

Credit Hours

A total of 120 credit hours is required for the bachelor's degree. Individual bachelor's degree programs may require the completion of more than 120 credit hours. See the descriptions of individual degree programs in this publication.

A total of sixty credit hours is required for the associate degree.

Residence

Each bachelor's degree student must successfully complete forty-five of the last sixty credit hours required for the degree in residence at The American University.

Associate degree students must complete twenty-four of the last thirty credit hours in residence.

Credit earned in any American University course, on or off campus, is residence credit. Credit earned by an American University student through the Consortium of Universities is also residence credit.

Grade-Point Average

Students enrolled in an undergraduate degree program must maintain a grade-point average of at least 2.00 in order to remain in good standing and to graduate.

University Competency Requirements

College Writing and English Competency

All students must be able to write with a level of mastery equal to the demands of college course work. In addition, students need to acquire the critical reading skills applicable in all their college courses. During the freshman year students develop competence by taking one of the following required six-credit course sequences:

- 23.100 College Writing
- 23.101 College Writing Seminar
- 23.102 College Writing
- 23.103 College Writing Seminar (Intensive)
- 23.130 Honors English I
- 23.131 Honors English II
- 23.205 Issues, Ideas and Words
- 23.101 College Writing Seminar or
- 23.103 College Writing Seminar (Intensive)
(for students in the APEL Program)
- 74.200 College Reading and Writing I
- 74.201 College Reading and Writing II (for nonnative speakers of English)

Students who complete the College Writing requirement in one of these ways (courses must be passed with a C or better) need not take the University English Competency Examination. Nonnative and native speakers of English must meet the same requirements. Students may be exempted from this course work and from the competency exam by earning an Advanced Placement English Test score of 4 or 5. A student who earns a CLEP College Composition exam score of 75% satisfies one semester of the College Writing requirement but must take either 23.100 or 23.101 and the English Competency Examination to satisfy the entire requirement.

Students who successfully complete 71.101 and 71.102 Communications I and II in the Community Studies program may satisfy the College Writing requirement by passing the English Competency Examination.

Transfer students who present six hours of acceptable composition credit from another institution satisfy the College Writing requirement by passing the English Competency Examination. Transfer students who present three hours of acceptable composition credit may satisfy the requirement by passing the first course in the College Writing requirement with a C or better or by taking the second course of the sequence and passing the English Competency Examination.

If a student fails the competency exam twice, the student must enroll in 23.180 Writing Workshop (or 74.280 College Writing Skills Workshop for nonnative speakers of English) and must pass the course with a grade of C or better.

College Mathematics and Quantitative Competency

All students must demonstrate skills in mathematics and quantitative reasoning at the college level. Students must meet the College Mathematics requirements during the freshman year and before enrolling in the foundation course in The Natural Sciences curricular area of the General Education Program. Students meeting the requirement through course work must receive a C or better in one of the following courses:

- 41.150 Finite Mathematics
- 41.170 Precalculus Mathematics
- 41.221 Calculus I
- any American University 41.xxx course that has any of these courses as the prerequisite, or any 42.xxx statistics course.

Students may also satisfy the College Mathematics requirement through examination by passing an examination equivalent to Finite Mathematics given by the Department of Mathematics and Statistics (may be taken only once, during the first semester) or with the following scores:

- AP Calculus AB score of 4 or 5
- AP Calculus BC score of 3, 4, or 5
- Mathematics II Achievement test score of 650
- CLEP Calculus exam score of 75%

Transfer students must satisfy this requirement by passing the Finite Mathematics Equivalency Examination (which may be taken only once), presenting one of the test scores listed above, taking 41.150 Finite Mathematics,

22 Undergraduate Study

41.170 Precalculus Mathematics, 41.221 Calculus I, or any American University 41.xxx course that has any of these courses as the prerequisite, or any 42.xxx statistics course.

General Education

The American University's General Education Program, required of all undergraduates, is designed to provide a challenging and focused liberal arts foundation. The General Education Program constitutes approximately one third of a student's course work at the university. During the first year, students satisfy University Requirements by earning a grade of C or better in six hours of College Writing course work and three hours of College Mathematics course work or through examination. In addition to University requirements, students take thirty hours of General Education requirements drawn from five curricular areas: The Creative Arts, Traditions that Shape the Western World, International and Intercultural Experience, Social Institutions and Behavior, and The Natural Sciences. These requirements are normally completed during the first two years of study.

The American University is committed to giving students a strong intellectual foundation, insuring that they understand the interrelatedness of a wide range of intellectually and culturally important disciplines and that they experience the challenge and excitement of study in depth. Consequently, each student takes two sequenced courses in each of the five curricular areas, a foundation course followed by a second-level course that reinforces the objectives and concepts of the first course.

The program is based on the idea that students should develop an appreciation of the forms of creative human expression; awareness of the cultural, philosophical, and historical frameworks of the world's cultures; an understanding of the structures, patterns, principles, and values that affect the organization of societies and the relationship between the individual and society; and the ability to apply diverse modes of inquiry and critical reasoning to gather data and solve problems. In short, the General Education Program aims to develop effective, informed minds suited for a complex and changing world.

Academic Standards and Regulations

Academic Load

An undergraduate student admitted to and enrolled in a degree program usually registers for fifteen credit hours each semester so that the required minimum of 120 credit hours for the bachelor's degree is completed in four years.

In any given semester, a student may carry a minimum of twelve credit hours and be classified and certified (for veteran's benefits, financial aid, etc.) as full time for that semester. The additional credit hours must be made up through summer enrollment or by an overload (if approved

by the dean) in another semester in order to maintain normal annual progress toward the degree, as is often required by the regulations of government agencies. Students are urged to become familiar with such regulations. A total of seventeen credit hours is the maximum load permitted without special approval.

An undergraduate student wishing to register for more than seventeen credit hours in a semester is required to have the approval of the academic adviser and the appropriate dean. The approval is for the overload, not permission for a specific course.

A per-credit-hour tuition fee is assessed, in addition to the full-time tuition fee, for registered credit hours in excess of seventeen.

Class Standing

Undergraduate class standing is defined as follows:

<i>Credit hours Completed</i>	<i>Standing</i>
0-29	Freshman
30-59	Sophomore
60-89	Junior
90-120	Senior

Students enrolled in a degree program requiring the completion of more than 120 credit hours will be considered seniors from the time they have completed 90 credit hours until they have completed all of their degree requirements.

Evaluation of Progress

An evaluation of each undergraduate student's progress is made by the office of the student's dean after each semester. In addition to the cumulative grade-point average, this evaluation considers completion of university requirements and the ratio of courses satisfactorily completed to all courses attempted by the student. Students who are not making satisfactory progress are informed in writing of the result of their evaluation and offered academic advisement.

The university has no strict regulations governing the total amount of time an undergraduate student may take to fulfill the requirements for a degree, provided the student maintains the appropriate grade-point average and gives evidence of being seriously interested in the eventual achievement of his or her academic objective.

Academic Probation and Dismissal

An undergraduate student who fails to maintain the required 2.00 cumulative grade-point average but whose average is 1.75 or higher may be granted probationary status for one year. Academic probation is an action usually taken only in the first two years of full-time study or the equivalent in part-time study. Dismissal may be antic-

ipated by any student whose cumulative grade-point average in the third or fourth year of full-time study (or the equivalent in part-time study) falls below 2.00, or whose average in any semester falls to 1.00 or below. Actions involving academic probation and dismissal are entered on the student's permanent record and may not be removed.

A student on probation may be subject to restrictions as to the course load he or she may register for. Such a student is ineligible to hold office in student organizations or to participate in intercollegiate activities. The student may be given permission to participate in intercollegiate athletics at the end of a semester in which the student's cumulative grade-point average has been raised to 2.00, even though the student's probation may extend for an additional semester.

It should be noted that the grade-point average is only one measure of academic performance. Maintenance of the required average does not necessarily imply that a student is making satisfactory progress, and the university reserves the right to dismiss a student whose performance is judged unsatisfactory even though the student has maintained the required grade-point average.

A student who is dismissed may not be readmitted to the university or enroll as a nondegree student for a full year after the effective date of the dismissal.

Freshman Forgiveness

A freshman who, during the first two semesters of full-time study, receives a grade of F or X in a course may repeat the course at The American University within the calendar year thereafter or in the next two regular semesters in which the student is enrolled. If the course is not offered within that time, the student may use the option the next time it is. No grade is removed from the student's record, but only the grade earned the second time the course is taken is used in calculating the grade-point average for purposes of making decisions concerning probation, dismissal, and required average for graduation.

A part-time undergraduate or nondegree student who, during the first thirty credit hours of study, receives a grade of F in a course may repeat the course at The American University within one calendar year after the semester in which the grade of F was received, with the resulting cumulative index benefits stated above.

The freshman forgiveness rule does not apply to transfer students even though they may have entered the university with freshman status.

Pass-Fail

Students may take up to 50% of their courses on a pass-fail basis. If a student's major department approves, this percentage may be greater. Courses in the student's major must be taken for a letter grade unless special permission is given by the dean or department chair. The grade of P (pass) is not used in calculating the grade-point average. See "General Academic Regulations and Information" in this publication.

Graduate Credit

Senior students, with the written permission of their department chairs or deans, may enroll in specifically approved graduate courses not required for their undergraduate programs. Such courses must be designated in writing as graduate-degree credit at the time the student registers for them. A copy of this written agreement must be filed in the Office of the Registrar. Retroactive application of these credits for such purposes is not permitted. Credit for these courses may be applied toward meeting the course requirements for a graduate degree after the student has been awarded an undergraduate degree if the student is then admitted to a graduate degree program.

No course may be counted as credit toward both an undergraduate and a graduate degree, except as part of a formally prescribed combined undergraduate-graduate degree program.

Study at Another Institution

Study at another institution is usually undertaken during the summer or as part of an overseas program.

An enrolled student who plans to take courses at another college or university for transfer credit to The American University must be in good academic standing and must receive prior approval from the student's teaching-unit chair and college dean using the Permit to Study Abroad form or the Permit to Study at Another U.S. Institution form. For study abroad approval is also required from the director of study abroad. If the course to be taken is outside the area of the student's major, the chair of the teaching unit which would offer credit for such a course must also approve the permit. Approval is granted for specific courses. See also "Study Abroad" below.

The visited institution, if in the United States, must be regionally accredited. Students who have earned sixty or more credits toward their degrees (junior standing) at the time they undertake work at another U.S. institution may have credit transferred only from institutions accredited for granting bachelor's or higher degrees. With departmental approval, transfer credit is applicable toward the requirements of a major.

Transfer credit may be used to fulfill General Education Requirements through the evaluation of equivalent courses taken at another institution and with the approval of the student's dean. Because of the special nature of the program, after the student has been admitted to The American University no credit toward General Education Requirements may be earned through transfer credit.

Leave of Absence

Undergraduate students desiring a leave of absence for reasons other than study at another collegiate institution should request an appointment with their dean. If it seems desirable to guarantee the student an automatic readmission, the dean will issue a permit for leave of absence. This permit will specify a limitation, one year at most, of automatic readmission to the same undergraduate program.

The permit becomes void if the student attends any domestic or foreign collegiate institution during the period of leave. In such instances, the student must obtain from his or her dean a permit to study at another institution before leaving The American University.

Resuming Study

Students who cease to attend the university for an entire semester, whether voluntarily or not, may not resume study until they have been readmitted. Readmitted students are subject to all regulations and must meet all requirements in force when studies are resumed unless other arrangements have been agreed to in writing by the student's dean before the beginning of such an absence.

Students who change degree objective, college, or school, or who choose to conform to new regulations or requirements, must be prepared to complete all requirements and abide by all regulations in effect at the time such a change is made.

Special Opportunities

Dean's List

Each college or school may issue a dean's list of its undergraduate honor students at the end of each semester. The minimum standard for listing is a 3.50 grade-point average for the semester, earned in a full-time undergraduate program of not fewer than fifteen completed credit hours of which at least twelve hours must be completed for A-F grade credit.

University Honors Program

The University Honors Program offers a four-year program of honors options to qualified students. Honors work is offered at all levels and in all departments. The program is characterized by small seminars, individualized attention from faculty, unique access to the resources of Washington, D.C., and the special atmosphere of an honors community of committed faculty and students. In addition to these curricular opportunities, honors students may live on an honors floor in a residence hall and participate in such activities as field trips, concerts and theatre productions, and meetings and symposiums with members of the Washington community, university leaders, and the honors faculty.

The Curriculum

The comprehensive four-year program of honors options is drawn from the General Education curriculum and work in individual departments. Early honors work gives students a broad base of knowledge, skills, and understanding which serves as a foundation for increasingly specialized upper-level work in the major and related areas. Students graduate with either University Honors or

University Honors in the Major. An honors coordinator in each teaching unit advises students on a specific honors program.

Requirements

The University Honors Program has three components: the foundation level with introductory and General Education honors options; advanced honors course work in the major and related areas; and a senior honors project. Students must complete thirty hours of honors work as follows: foundation level, twelve to eighteen hours; advanced level, six to twelve hours; and senior project, three to six hours. Honors students elect the twelve to eighteen hours of foundation-level work from honors English, honors Mathematics, and honors sections of General Education or departmental introductory courses. At the advanced level (.300 or above), the six to twelve hours of specialized honors work is drawn from honors seminars and honors sections of courses in the major or related fields, honors supplements linked to courses in the major or related fields, University Honors Program seminars, and honors independent study and tutorials. All students must complete a minimum of six hours of advanced-level honors work in the major or related areas. All students complete an honors senior capstone project (three to six hours). The senior project, which varies among teaching units, may include, for example, an honors thesis, a performance or exhibit, a major paper linked to an interdisciplinary colloquium, a publication, or a departmental capstone course. Honors program students must maintain a cumulative grade-point average of 3.00 or above.

Honors Graduation Requirements

Students who successfully complete the program (a minimum of thirty hours of designated honors course work as described above, with a grade of B or better in each honors course and a cumulative grade-point average of 3.3 or above) are eligible to graduate with University Honors. Students who complete the requirements for University Honors, including twelve hours of advanced-level honors work including a senior project in the major, will, upon departmental recommendation, be eligible to graduate with University Honors in the Major.

Admission to the Program

Admission to the University Honors Program is determined by the honors director and an honors committee. Qualified entering freshmen, transfer students, and current students are eligible for admission to the program. Approximately 10% of the entering freshman class, selected on the basis of high-school record and SAT scores, is admitted to the program. Other students, including transfer students, may be admitted to the program at the discretion of the honors committee if they have achieved a cumulative college grade-point average of 3.5 on a 4.00 scale for the equivalent of at least one full semester of work (fifteen credit hours). Students enrolled at The American University may also nominate themselves for admission to the program and are admitted to the program at the discretion of the honors committee.

Students who enter the University Honors Program after beginning the freshman year are not required to complete

the full thirty hours of honors course work. Exceptions to the number of required hours are subtracted from the foundation-level requirements. Inquiries about admission to the University Honors Program should be addressed to the director of the program.

Graduation Honors

There are two kinds of undergraduate graduation honors at The American University: Latin Honors, based on cumulative grade-point average, and University Honors, based on a combination of honors course options and cumulative grade-point average.

To be eligible for graduation honors, students must have completed at least sixty credit hours required for their degree in residence at The American University and have achieved the requisite grade-point average.

Undergraduate Latin honors and the grade-point averages required are as follows: *Summa cum laude*—3.90 or higher; *Magna cum laude*—3.70 through 3.89; *Cum laude*—3.50 through 3.69. No more than fifteen credit hours taken pass-fail may be included in The American University work applied toward Latin honors. Such courses are not computed into the grade-point average. Honors are listed in the commencement program and on the student's diploma and permanent record.

Students who fulfill the requirements for the University Honors Program are eligible to graduate with university honors. University Honors Program students whose honors work includes completion of twelve hours of advanced-level honors work in the department, including the senior project are eligible, upon departmental recommendation, to graduate with University Honors in the Major. Graduation with University Honors is listed in the commencement program and on the student's diploma and permanent record. For detailed information see "University Honors Program" above.

Study Abroad

The American University runs several study-abroad programs (see Study Abroad Programs in this publication). Undergraduate students enroll in these programs by applying to the program and following the normal registration procedure.

Students may participate in study-abroad programs offered by other institutions that are part of a regionally accredited U.S. college or university, and is recorded on the transcript of that institution. For determination of regional accreditation, the publication *Credit Given* is the accepted reference.

After consultation with and approval of the student's dean, application is made directly to the institution for admission to its foreign study program. Transfer credit will be granted on the basis of the transcript from the sponsoring U.S. college or university.

Students may also attend institutions abroad not affiliated with an American college or university. Requests for transfer credit must be made on a Permit to Study Abroad form and must be approved before the student registers at the foreign institution. The institution to be visited must be approved by the student's dean and the director of World Capitals Programs. The director of World Capitals Programs will give final approval of the institution to be attended, will evaluate the official transcript when the student returns for the value in credit hours of the work completed, and will forward the transcript and evaluation to the Office of the Registrar for transfer of approved credit.

The student's academic adviser and dean will approve the academic areas or specific courses of study. Students must be warned that they might not receive credit for remedial language study if they are found deficient in the language of the country they visit. (See also Study at Another Institution above.)



General Education Program

The General Education Program is designed for all undergraduate students regardless of degree program. Aimed at building a strong intellectual foundation, the thirty hours of General Education requirements are drawn from five curricular areas. The program is designed to be completed during the first two years, enabling students ample time to pursue a major as well as internships and cooperative education.

Curricular Area Course Requirements

Students select courses from those that are designated in the catalog as General Education courses. Students choose two courses, one foundation course and one second-level course in the same cluster (six credit hours), in each curricular area:

The Creative Arts
Traditions that Shape the Western World
International and Intercultural Experience
Social Institutions and Behavior
The Natural Sciences

Courses at the foundation level introduce students to the fundamental concepts, issues, and achievements in the disciplines. Courses deal explicitly with the appropriate processes and standards for gathering and evaluating information (quantification, experiments, primary sources, authoritative texts) and interpretation (methods of investigation and analytic skills) in a specific disciplinary field. All science foundation courses include laboratory experience. The courses are designed to help students achieve a broad view of how different disciplinary viewpoints and fields of knowledge can contribute to their understanding of themselves and the world around them.

General Education foundation courses differ from traditional survey courses by integrating into the course some

of the perspectives and foundation skills essential to a full education. These elements include, as appropriate:

- writing experience to enhance basic communication skills and to reinforce what is taught in the College Writing program,
- a critical thinking component to enhance the ability to make and analyze judgments based on reasoning and evidence and to evaluate the reliability of sources of information,
- recognition of the ethical issues pertinent to the field or discipline,
- development of quantitative and computing skills,
- development of intuitive, creative, and aesthetic faculties, and the ability to connect these with reasoning skills;
- attention to a variety of perspectives, including those perspectives that emerge from the new scholarship on gender, race, and class as well as from non-Western cultural traditions.

The second-level courses follow specific foundation courses, forming a coherent curricular sequence and reinforcing the learning objectives of the foundation course. The foundation courses selected from a variety of disciplines assure breadth in the student's program while the second-level courses build on the foundation and encourage study in depth.

Curricular Area 1: The Creative Arts

This dimension of the curriculum is designed to develop an informed understanding of literary and artistic creativity and of the distinct aesthetic languages of the visual arts, literature, music, theatre, and dance. Students gain this

understanding through the study of historical and contemporary examples of the arts and letters, or through the disciplined practice of a creative art form.

Course Goals

- study classic works of the human imagination
- critically analyze creative works from the viewpoints of form, style, and meaning
- understand how and by whom aesthetic value judgments have been made historically
- examine the nature of imaginative and intuitive thinking
- consider the relationship between problem solving and creativity
- develop aesthetic sensibility, discernment, and informed judgments
- explore the interaction of art and society
- develop creative and expressive abilities

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

05.100 Art: The Studio Experience

- 05.205 Drawing: Responding to Vision
- 05.210 Painting: Color, Form, Expression
- 05.215 Sculpture: Form and Expression in 3-D
- 05.220 Design: Color Theory and Practice
- 05.225 Design: Form, Space, Vision
- 07.210 Modern Art: 19th and 20th Centuries
- 60.230 Meaning and Purpose in the Arts

07.105 Art: The Historical Experience

- 05.215 Sculpture: Form and Expression in 3-D
- 05.210 Painting: Color, Form, Expression
- 07.210 Modern Art: 19th and 20th Centuries
- 07.215 Architecture: Washington and the World
- 23.270 Transformations of Shakespeare
- 67.210 The Great Composers: Lives and Music

17.105 Visual Literacy

- 05.205 Drawing: Responding to Vision
- 05.220 Design: Color Theory and Practice
- 07.215 Architecture: Washington and the World
- 67.220 Reflections of American Society on Stage and Screen

23.105 The Literary Imagination

- 23.225 The African Writer
- 23.240 Narrative and Knowledge
- 23.245 The Experience of Poetry
- 60.230 Meaning and Purpose in the Arts

23.120 Interpreting Literature

- 03.225 Language and Human Experience
- 23.225 The African Writer
- 23.245 The Experience of Poetry
- 23.270 Transformations of Shakespeare

23.135 Critical Approach to the Cinema

- 23.240 Narrative and Knowledge
- 67.215 Opera on Stage and Film
- 67.220 Reflections of American Society on Stage and Screen

67.110 Understanding Music

- 07.210 Modern Art: 19th and 20th Centuries
- 60.230 Meaning and Purpose in the Arts
- 67.205 Masterpieces of Music
- 67.210 The Great Composers: Lives and Music
- 67.215 Opera on Stage and Film

67.115 Theatre: Principles, Plays and Performance

- 03.225 Language and Human Experience
- 05.225 Design: Form, Space, Vision
- 23.270 Transformations of Shakespeare
- 67.200 Dance and Society

67.160 On Stage! Dance - Music - Theatre

- 67.200 Dance and Society
- 67.210 The Great Composers: Lives and Music
- 67.215 Opera on Stage and Film
- 67.220 Reflections of American Society on Stage and Screen

Curricular Area 2: Traditions that Shape the Western World

This curricular area aims to enrich students' knowledge and appreciation of Western civilization. Courses explore the people, forces, events, and institutions that have shaped history, and the various philosophical, religious, and ethical questions that provide the foundation for moral choice. Students become aware of the accomplishments and limitations of particular cultures, of how our lives today reflect the past from which we evolved, and of how ideas about the past shape perceptions of the present and plans for the future.

Course Goals

- understand the historical and philosophical traditions that shape the Western world
- recognize that Western intellectual traditions are defined by diversity as much as by commonality, by both resistance to and enrichment by influences from the rest of the world, and that challenge to authority has been a distinctive characteristic of these traditions
- read and discuss fundamental texts from these traditions

- examine and assess evidence, draw conclusions, and evaluate the meaning of these conclusions
- examine historical and philosophical issues critically and comparatively
- consider the contributions of ethical and religious systems to human life
- discuss the complex interplay between the rich varieties of tradition and the necessity of change

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

07.100 European Art: From Cave to Cathedral

- 07.205 Art of the Renaissance
- 23.255 Political Revolutions and Literary Continuity, 1660-1798
- 29.200 Italian Civilization (Study Abroad in Rome)
- 34.205 Ancient and Medieval Jewish Civilization
- 61.220 Religious Thought

23.115 Remarkable Literary Journeys

- 23.235 Afro-American Literature
- 23.255 Political Revolutions and Literary Continuity, 1660-1798
- 23.265 Literature and Society in Victorian England
- 29.200 Italian Civilization (Study Abroad in Rome)
- 34.205 Ancient and Medieval Jewish Civilization

29.100 Historians and the Living Past

- 17.270 How the News Media Shape History
- 29.235 The West in Crisis, 1900-1945
- 33.200 Liberalism and Its Critics
- 57.230 Theories of Personality

29.110 Renaissance and Revolutions: Europe, 1400-1815

- 23.265 Literature and Society in Victorian England
- 29.205 America's Quest for the Good Society, 1607-1865
- 29.235 The West in Crisis, 1900-1945
- 60.210 European Philosophy and the American Experiment

29.115 Work and Community

- 02.210 Folk Traditions, Community, and Identity
- 23.235 Afro-American Literature
- 23.255 Political Revolutions and Literary Continuity, 1660-1798
- 29.215 Social Forces that Shaped America

53.105 Individual Freedom vs. Authority

- 17.270 How the News Media Shape History
- 29.205 America's Quest for the Good Society, 1607-1865
- 57.230 Theories of Personality

60.210 European Philosophy and the American Experiment

60.105 Western Philosophy

- 02.230 Tribal Traditions
- 29.200 Italian Civilization (Study Abroad in Rome)
- 60.210 European Philosophy and the American Experiment
- 60.220 Moral Philosophy
- 65.215 The Rise of Critical Social Thought

61.105 The Religious Heritage of the West

- 02.210 Folk Traditions, Community, and Identity
- 02.230 Tribal Traditions
- 67.205 Art of the Renaissance
- 29.200 Italian Civilization (Study Abroad in Rome)
- 61.220 Religious Thought

76.150 Women's Voices through Time

- 29.215 Social Forces that Shaped America
- 33.200 Liberalism and Its Critics
- 60.220 Moral Philosophy
- 65.215 The Rise of Critical Social Thought

Curricular Area 3: International and Intercultural Experience

This dimension of the curriculum is designed to create an informed understanding of our interdependent world and to foster greater intercultural awareness and communication. Courses in this area seek to develop an understanding of non-Western cultures and traditions. They also address both timeless and newly emergent issues of international relations and introduce students to cultural diversity and its effects on the interaction of peoples and states.

Course Goals

- understand those habits of thought and feeling that distinguish cultures from one another
- explore comparative and cross-cultural perspectives
- develop analytical skills appropriate to the study of international and intercultural relations
- understand concepts, patterns, and trends that characterize international and intercultural relations
- analyze systematically major issues such as war and peace, global order, distributive justice, and the finite character of the earth's resources

30 General Education Program

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

03.110 Culture: The Human Mirror

- 03.215 Sex, Gender, and Culture
- 21.205 Education for International Development
- 33.210 Human Geography: Peoples, Places, and Cultures
- 61.210 Asian and African Religious Traditions

19.110 The Global Majority

- 21.205 Education for International Development
- 33.210 Human Geography: Peoples, Places, and Cultures
- 33.230 International Development
- 33.250 Civilizations of Africa
- 65.230 Conflict and Change in Latin America

29.150 Third World Literature

- 03.215 Sex, Gender, and Culture
- 29.250 Civilization and Modernization: Asia
- 33.250 Civilizations of Africa
- 37.210 Latin America: History, Art, Literature

29.120 Imperialism and Revolution

- 03.210 Roots of Racism and Interracial Harmony
- 29.225 Russia: Past and Present
- 29.260 To Arms: People and Nations at War
- 53.235 Dynamics of Political Change

33.110 Beyond Sovereignty

- 03.220 Living in Multicultural Societies
- 21.205 Education for International Development
- 33.215 Competition in an Interdependent World
- 33.372 Brussels Seminar (Study Abroad in Brussels)
- 53.235 Dynamics of Political Change

33.120 Between Peace and War

- 29.225 Russia: Past and Present
- 29.260 To Arms: People and Nations at War
- 37.200 The Soviet Union and the United States
- 65.225 Contemporary Arab World

33.140 Cross-Cultural Communication

- 03.210 Roots of Racism and Interracial Harmony
- 03.220 Living in Multicultural Societies
- 33.255 Japan and the United States
- 33.372 Brussels Seminar (Study Abroad in Brussels)
- 33.374 Buenos Aires Seminar (Study Abroad in Buenos Aires)
- 37.210 Latin America: History, Art, Literature

53.130 Comparative Politics

- 33.215 Competition in an Interdependent World
- 33.255 Japan and the United States
- 33.372 Brussels Seminar (Study Abroad in Brussels)

33.374 Buenos Aires Seminar (Study Abroad in Buenos Aires)

37.200 The Soviet Union and the United States

53.235 Dynamics of Political Change

61.185 Forms of the Sacred: Religions of the East

- 29.250 Civilization and Modernization: Asia
- 33.255 Japan and the United States
- 61.210 Asian and African Religious Traditions
- 65.225 Contemporary Arab World

65.110 Views from the Third World

- 33.230 International Development
- 33.250 Civilizations of Africa
- 33.374 Buenos Aires Seminar (Study Abroad in Buenos Aires)
- 65.225 Contemporary Arab World
- 65.230 Conflict and Change in Latin America

Curricular Area 4: Social Institutions and Behavior

This dimension of the curriculum is designed to broaden understanding of the structures and principles that underlie and sustain political, social, and economic institutions. In addition, students examine the role of the individual in society through sustained analysis of major modes of organization and important theories and models.

Course Goals

- understand and critically analyze concepts, patterns, and issues that affect the organization of societies and the relationship between the individual and the society
- study institutions, systems, and patterns of governance and of economic and social organization that underlie contemporary societies
- critically analyze classic theories of human organization
- discuss the values and ethical issues that underlie social, political, and economic organizations
- examine the formulation of policies and the consequences of different policy options
- analyze distinctive methods of inquiry appropriate to the study of societal institutions and patterns, using quantitative as well as qualitative techniques

Foundation Courses—Students select one 100-level course in the curricular area.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

03.150 Anthropology of American Life

- 02.240 Poverty and Culture
- 03.200 City as Community
- 29.210 Ethnicity in America
- 65.205 The Family
- 76.250 The Social Reality of Women

19.100 Macroeconomics

- 02.240 Poverty and Culture
- 19.200 Microeconomics
- 53.210 Political Power and American Public Policy
- 53.225 Congress and the Presidency
- 65.220 Work in America

53.110 The Individual and the Polity

- 17.205 Understanding Mass Media
- 29.220 Women in Modern America
- 53.210 Political Power and American Public Policy
- 53.215 Civil Rights and Liberties
- 53.225 Congress and the Presidency
- 60.225 Ethical Issues in Government, Business and Media
- 65.210 Inequality and Stratification

57.105 Psychology as a Social Science

- 17.205 Understanding Mass Media
- 53.205 Conscience and Authority
- 57.205 Social Psychology
- 57.215 Abnormal Psychology and Society
- 65.205 The Family
- 76.250 The Social Reality of Women

54.105 Individuals and Organizations

- 21.200 Schools and Society
- 53.205 Conscience and Authority
- 53.215 Civil Rights and Liberties
- 57.205 Social Psychology
- 60.225 Ethical Issues in Government, Business and Media
- 65.220 Work in America
- 73.200 Deprivation of Liberty

65.100 American Society

- 03.200 City as Community
- 17.205 Understanding Mass Media
- 21.200 Schools and Society
- 29.210 Ethnicity in America
- 65.210 Inequality and Stratification
- 65.220 Work in America

73.100 Institutions of Justice

- 29.220 Women in Modern America
- 53.215 Civil Rights and Liberties
- 57.215 Abnormal Psychology and Society
- 73.200 Deprivation of Liberty

Curricular Area 5: The Natural Sciences

This curricular area provides students with an informed understanding of the nature of scientific reasoning, discovery, and invention through a systematic exploration of the basic concepts and practices of biology, chemistry, physics, and experimental psychology.

Course Goals

- understand how science works through explicit examination of the historical development and current status of scientific methods, concepts, and principles
- understand how the sciences use successive experimentation to replicate, control variables, explain error, and build explanatory models
- experience scientific experimentation through laboratory exercises
- practice problem-solving using quantification, statistical analysis, and computer data manipulation
- analyze and evaluate the contributions of important scientists
- develop a respect for the finite resources of our planet, responsible use of technology and nuclear power, the limits of humane research, and the fragile wonders of the natural world

Foundation Courses—Students select one 100-level course in the curricular area including a laboratory experience.

Second-level Courses—Students select one of the 200-level courses in the cluster of courses listed below the foundation course.

09.100 Great Experiments in Biology

- 09.200 Structure and Function of the Human Body
- 09.220 The Case for Evolution
- 09.240 Oceanography
- 15.230 Earth Sciences
- 57.225 Neurobiological Bases of Behavior
- 57.240 Drugs and Behavior

09.110 General Biology I**09.111 General Biology I Laboratory**

- 09.210 General Biology II
- 09.211 General Biology II Laboratory
- 09.200 Structure and Function of the Human Body
- 09.220 The Case for Evolution
- 09.240 Oceanography
- 15.230 Earth Sciences
- 57.220 Perception
- 57.225 Neurobiological Bases of Behavior

15.100 Chemistry for the Modern World

- 09.240 Oceanography
- 15.200 Human Biochemistry

32 General Education Program

- 15.220 Environmental Chemistry
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy

15.110 General Chemistry I

15.111 General Chemistry I Laboratory

- 15.210 General Chemistry II
- 15.211 General Chemistry II Laboratory
- 09.240 Oceanography
- 15.200 Human Biochemistry
- 15.220 Environmental Chemistry
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy

51.100 Physics for the Modern World

- 09.240 Oceanography
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy
- 57.220 Perception

51.105 College Physics I

51.111 General Physics I Laboratory

- 51.205 College Physics II
- 51.211 General Physics II Laboratory
- 09.240 Oceanography
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy
- 57.220 Perception

51.110 University Physics I

51.111 General Physics I Laboratory

- 51.210 University Physics II
- 51.211 General Physics II Laboratory
- 09.240 Oceanography
- 15.230 Earth Sciences
- 51.200 How the Universe Works
- 51.220 Astronomy
- 57.220 Perception

57.115 Experimental Foundations of Psychology

- 09.200 Structure and Function of the Human Body
- 09.220 The Case for Evolution
- 57.200 Behavior Principles
- 57.220 Perception
- 57.225 Neurobiological Bases of Behavior
- 57.240 Drugs and Behavior

Course Selection

Students select two courses, a foundation course followed by a more specialized course, in each curricular area. Students will *not* be able to satisfy General Education requirements with more than two courses in any one discipline even though a discipline may have courses included in more than one curricular area. Courses required for College Writing and College Mathematics do not count in the two-course limit.

Prerequisites

A second-level course may not be taken for General Education credit unless the prerequisite foundation course has been completed. The University Requirement in College Mathematics must be satisfied before the student enrolls in a foundation course in The Natural Sciences curricular area. The mathematics requirement may be taken concurrently with a Natural Science foundation course if the mathematics course has 4.1, 150 Finite Mathematics or its equivalent as a prerequisite.

Relation to the Major

The requirements for the major, the area of a student's academic concentration, are listed in *The American University Catalog* under individual degree programs. Many of the courses in the General Education Program also meet requirements of the major. Students interested in a double major need to plan ahead if they expect to fulfill all requirements within 120 credit hours.

Advanced Placement Credit

Students presenting a 4 or 5 on the Advanced Placement Biology, Chemistry, or Physics examination may earn full credit for the General Education requirement in The Natural Sciences. No other Advanced Placement credit may be used to meet the thirty semester hours of General Education requirements in the five curricular areas.

Transfer Students

Transfer students satisfy their General Education requirements through a combination of appropriate transfer courses and completion of courses in the General Education Program at The American University. Through the evaluation of equivalent courses taken at another institution and with the approval of a student's dean, transfer credit may fulfill all thirty credit hours. In some cases, students supplement transfer credit with General Education courses taken at the university to meet the thirty-hour requirement. The need to satisfy sequences is waived when six hours in a curricular area is accepted for transfer credit.

Associate of Arts Degree

In the fields in which the university offers an associate degree, this degree requires the completion of at least sixty credit hours. Twenty-four hours of courses must be in the General Education Program, to include one foundation course in each of the five curricular areas and one second-level course in each of three of the five curricular areas.

Study Abroad

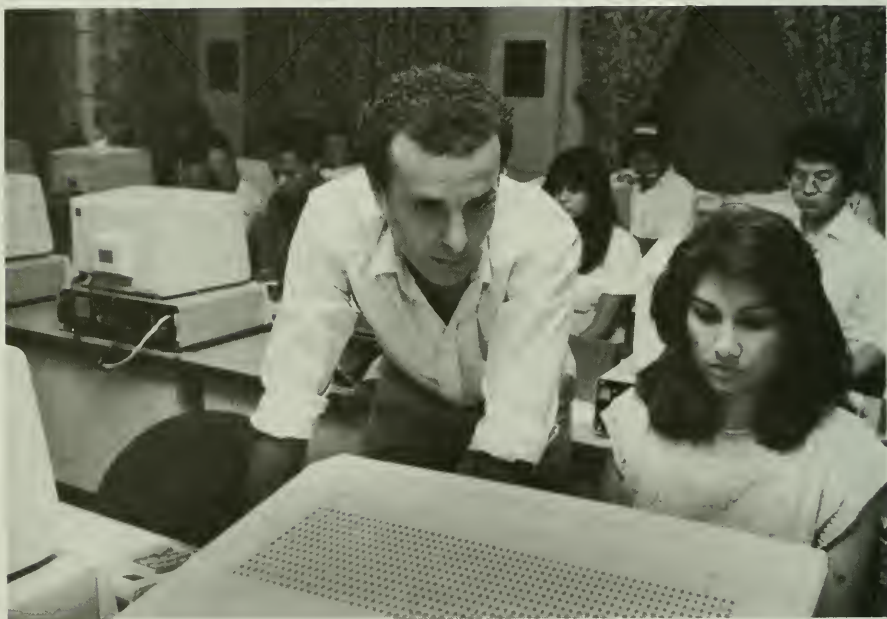
Students who choose to participate in Study Abroad in Rome, Brussels, and Buenos Aires may substitute that experience for a second-level course in the designated sequence and receive three credits toward the General Edu-

cation requirement. No other Study Abroad programs have been approved for General Education credit.

Study at Another Institution

Transfer credit may be used to fulfill General Education requirements through the evaluation of equivalent courses

taken at another institution and with the approval of the student's dean. Because of the special nature of the program, after the student has been admitted to a degree program at The American University no credit toward General Education requirements may be earned through transfer credit.



Graduate Study

Admission

Application for Admission

The standard deadlines by which applications for graduate study and all supporting documents must be on file in the Office of Admissions and Financial Aid are as follows:

Fall—February 15

Spring—November 1

International—October 1

Summer—March 15

Applicants should check the chart in this chapter for possible exceptions established by the teaching unit of the intended major.

Application to graduate school is self-managed. This means applicants assemble all of the admission components (application form, recommendations in sealed envelopes, and official academic transcripts in sealed envelopes) and mail them in the large mailing envelope enclosed in the "Guide to Graduate Admission and Financial Awards" to the Office of Graduate Affairs and Admissions. *Attendance at all institutions must be reported whether or not credit was earned.* Failure to report all previous academic work (undergraduate and graduate) will be considered sufficient cause for rejection of an application or for dismissal from the university.

Graduate applicants are also responsible for ensuring that any required test scores be sent directly from the testing service to the Office of Graduate Affairs and Admissions.

Since graduate programs are highly individualized, applicants are encouraged to schedule an appointment with the academic adviser in the teaching unit to which they intend to apply.

The applicant is required to submit the application form and a nonrefundable application fee of \$35. Forms may be obtained by writing or telephoning the Office of Graduate Affairs and Admissions, (202) 885-1098.

Notice of Admission

The Office of Graduate Affairs and Admissions will send the completed application and supporting documents to the appropriate academic unit for review. Usually departments will make a decision within four to six weeks. However, some departmental procedures take longer. Students should consult the department to which they are applying if they have questions about admission decisions.

Students who have applied for admission to a degree program must clear their admission status before registering for courses. Students who have not received notification of status should inquire directly of The Office of Graduate Affairs and Admissions before attempting registration. A provisionally admitted student will be designated as such at the time of admission.

Candidates for graduate degrees will be subject to the academic regulations in force at the time of their admission.

Admission Requirements

The minimum university admission requirements for graduate study are set out below. Please refer to the table following these requirements and to the appropriate college, school, and department sections of this publication for any additional requirements of the various units.

1. A bachelor's degree earned at an accredited college or university.
2. A 3.00 cumulative grade-point average on a 4.00 scale, in an undergraduate program, calculated on the last sixty credit hours of course work completed and presented at the time of application for admission.
3. Maintenance of a cumulative grade-point average of at least 3.00 on a 4.00 scale in all relevant graduate work for which a grade has been awarded.
4. An applicant for graduate study may be admitted without reference to the undergraduate average provided the applicant has maintained on a 4.00 scale either a 3.30 cumulative grade-point average in a

master's degree program completed at an accredited institution, or 3.50 cumulative grade-point average in the last twelve credit hours of a master's or doctoral degree program still in progress at such an institution at the time the application is evaluated, or in graduate work taken in nondegree status at The American University and applicable to the degree program being applied for.

5. An applicant for graduate study may be admitted without a bachelor's degree earned at an accredited college or university or without reference to the undergraduate average provided that he or she is a midcareer person from government or the private sector who has not attended school full-time for at least eight years and is applying for admission to a professional master's degree program. This exception must be justified by an evaluation of the applicant's work performance and his or her organization's recommendation.

Provisional Standing

Each college, school, or department of the university may admit to provisional standing a limited number of students who do not meet the minimum standards of either the university or the teaching unit. By the end of one full semester of full-time study or after the first twelve credit hours of part-time study, the student will be evaluated by the college, school, or department. Continuation in the graduate program will be permitted on favorable appraisal of the student's performance.

The provisional admission status of a graduate student who does not give satisfactory evidence of capability will be withdrawn. This constitutes dismissal of the student.

Transfer of Credit

The university is liberal in accepting credit earned in the past. Nonetheless, a student who has not been engaged in formal study for a number of years or whose study has been intermittent, at The American University or elsewhere, must understand that full credit will not necessarily be granted for past work simply because it is a matter of record.

The evaluation of graduate work completed elsewhere by an entering graduate student, in terms of its applicability to the program at The American University, will be made by the office of the dean or department chair concerned no later than the completion of twelve credit hours of course work.

Up to six credit hours earned at another institution may be applied to a master's degree (except for the sixty-hour M.B.A. program, into which up to twelve credit hours may be transferred). Up to thirty-six credit hours earned at another institution may be applied to a doctorate, including thirty credit hours for a master's degree earned at an-

other institution and six credit hours beyond the master's degree.

For transfer credit, individual courses (that is, courses not part of a completed master's program) must have been completed with grades of B or better and must have been completed within seven years of the beginning of the semester for which the student is admitted to degree status at The American University.

In no case may graduate credit be given for course work designated as undergraduate by the offering institution.

In all cases students are required to meet the residency requirements established by the university and any further residency requirements which may be stipulated for each program by the individual departments. The student should refer to the section on "Semester Hour and Residence Requirements" and consult the individual department for further details.

Admission from Nondegree Status

Students who have not been denied admission to a degree program within the preceding year may enroll in non-degree status at The American University (see "Nondegree Study" in this publication). A student registered in non-degree status who later establishes eligibility for admission to graduate degree status may apply a total of not more than twelve credit hours of graduate work completed while in nondegree status toward meeting the requirements for a graduate degree, provided the courses were completed within seven years of the beginning of the semester for which the student is admitted to degree status. To be considered for admission to degree status at the graduate level, a nondegree student must have maintained a grade-point average of at least 3.00 (B) in all graduate-level work.

There is no guarantee that a nondegree student will be accepted into a degree program.

Students admitted to degree status ordinarily may not thereafter register as nondegree students until they have successfully completed their degree requirements.

Readmission

After expiration of the time limit for completion of a graduate degree program, readmission may be granted once for a period of three years (less any time given in previous extensions of candidacy), subject to the requirements of the particular degree in effect at the time of readmission, and may involve taking additional courses or other work or both. When a student is readmitted under these circumstances, the length of time that the student will be given to complete degree requirements and any additional courses, examinations, or other requirements which are deemed necessary by the teaching unit will be specified. Students applying for graduate readmission must pay a fee of \$35.

Graduate Admission Requirements

Teaching Unit	Degrees Offered	Applications Accepted for	Application Deadline	Requirements in Addition to University Requirements (Note: For degree, grade-point average, and test-score requirements, consult the individual program descriptions in this publication.)
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College of Arts and Sciences

(All applications will receive consideration up to May 1 unless otherwise stipulated.)

Anthropology	M.A., Ph.D.	All terms, preferably fall.	Standard*, should apply by January 15 to assure consideration for fall financial aid.	Two academic letters of reference; an example of student's work, e.g., term paper; additional information available from dept.; send GRE scores if applying for financial awards.
Art	M.A., M.F.A.	All terms.	Standard.*	Two letters of recommendation if first degree not earned in dept. Art History: Must have at least 24 undergraduate hours in art history. GRE scores if available. Fine Arts: Portfolio must be submitted to dept.
Biology	M.A., M.S.	All terms.	Standard.*	Two letters of recommendation; GRE General and Subject.
Chemistry	M.S., Ph.D.	All terms.	Standard.*	Two letters of recommendation.

- * The standard deadlines for application are: Fall, February 15; Spring, November 1; Summer, March 15. The deadlines for international applicants not in the U.S. are: Fall, February 15; Spring, October 1; Summer, March 15. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 15 regardless of the teaching unit's application deadline. Consult the current *Guide to Graduate Admission and Financial Awards* for complete information.

Graduate Admission Requirements (continued)

<i>Teaching Unit</i>	<i>Degrees Offered</i>	<i>Applications Accepted for</i>	<i>Application Deadline</i>	<i>Requirements in Addition to University Requirements (Note: For degree, grade-point average, and test-score requirements, consult the individual program descriptions in this publication.)</i>
Communication, School of	M.A.	Fall for Journalism and Public Affairs; Fall or Spring for Film and Video; Fall for Public Communication; Fall or Spring for Economic Communication.	For Journalism and Public Affairs: March 1. For Film and Video: June 1, except for graduate assistantships. For Public Communication: June 1, except for graduate assistantships. For Economic Communication: June 1 for Fall, November 1 for Spring, except for graduate assistantships.	School of Communication application form and 1,000-word statement sent directly to Graduate Journalism Admissions Committee, School of Communication. Film and Video: 1,000-word statement of purpose sent directly to Graduate Film and Video Program Director, School of Communication.; For Public Communication: 1,000-word statement of purpose sent to Graduate Public Communication Program Director, School of Communication. Economic Communication: 1,000-word statement of purpose sent to Graduate Economic Communication Program Director, National Center for Business and Economic Communication. Two letters of recommendation and graduate application are required for all programs and must be submitted directly to the Office of Admissions. International students must submit TOEFL scores. Score of 800 required for Journalism, Public Affairs, and Economic Communication.
Computer Science and Information Systems	M.S.	All terms, preferably fall for Computer Science majors.	Standard.*	M.S.: previous course work or work experience or willingness to do remedial work before beginning program; two letters of recommendation.
Economics	M.A., Ph.D.	All terms.	Standard,* but Ph.D. advised to apply before February 1 for fall, October 1 for spring.	GRE General recommended for M.A., required for Ph.D.; GRE subject recommended for Ph.D.; two letters of recommendation.
Education, School of	M.A., M.A.T., M.Ed., Ed.D., Ph.D.	All terms.	Standard.*	Two academic letters of reference with university application; GRE General or Miller Analogies Test. International students submit TOEFL scores. Extensive personal statement required.

* The standard deadlines for application are: Fall, February 15; Spring, November 1; Summer, March 15. The deadlines for international applicants not in the U.S. are: Fall, February 15; Spring, October 1; Summer, March 15. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 15 regardless of the teaching unit's application deadline. Consult the current *Guide to Graduate Admission and Financial Awards* for complete information.

Graduate Admission Requirements (continued)

<i>Teaching Unit</i>	<i>Degrees Offered</i>	<i>Applications Accepted for</i>	<i>Application Deadline</i>	<i>Requirements In Addition to University Requirements (Note: For degree, grade-point average, and test-score requirements, consult the individual program descriptions in this publication.)</i>
Health and Fitness	M.S.	All terms, preferably fall.	July 15	Program application, two letters of recommendation, Human Anatomy and Physiology, and Exercise Physiology. GRE or GMAT required.
History	M.A., Ph.D.	All terms.	Standard.*	Two letters of recommendation from recent professors; GRE General; no direct admission to Ph.D. from B.A. level; Ph.D. applicants should have a substantial beginning in a tool of research. Ph.D. applicants must submit directly to the department a substantial sample of recent written work.
Interdepartmental Science	M.S.S.T., M.S.	All terms.	Standard.*	Two letters of recommendation; GRE General or Miller Analogies Test for M.S.S.T.
Language and Foreign Studies	M.A.	All terms.	Standard.*	Two letters of recommendation from recent professors unless previous degree earned in department. Language and Foreign Studies: B.A. degree or equivalent in the foreign language and proficiency in appropriate language and culture. Linguistics: International students must take TOEFL. Minimum score 600.
Literature	M.A., M.F.A.	All terms.	Standard*	Two letters of recommendation; GRE General recommended; samples of written work desirable, required for M.F.A.; interview recommended. Send writing samples to department.
Mathematics and Statistics	M.A., M.S., Ph.D.	All terms, preferably fall.	Standard.*	Two letters of recommendation; Ph.D. in Mathematics Education requires master's degree in education or mathematics.

- * The standard deadlines for application are: Fall, February 15; Spring, November 1; Summer, March 15. The deadlines for international applicants not in the U.S. are: Fall, February 15; Spring, October 1; Summer, March 15. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 15 regardless of the teaching unit's application deadline. Consult the current *Guide to Graduate Admission and Financial Awards* for complete information.

Graduate Admission Requirements (continued)

<i>Teaching Unit</i>	<i>Degrees Offered</i>	<i>Applications Accepted for</i>	<i>Application Deadline</i>	<i>Requirements in Addition to University Requirements (Note: For degree, grade-point average, and test-score requirements, consult the individual program descriptions in this publication.)</i>
Performing Arts	M.A.	All terms.	April 15	Two letters of recommendation; interview/audition preferred (required for provisional-status students and performance majors). Music composition majors must present a folio of three compositions of different kinds.
Philosophy and Religion	M.A.	All terms.	Standard.*	Philosophy: Two letters of recommendation; an introductory course in philosophy with a grade of B or better; GRE General recommended. Religion: Two letters of recommendation; GRE General recommended. (See program description for details.)
Physics	M.S., Ph.D.	All terms.	Standard.*	Ph.D.: Two letters recommendation unless previous degree earned in department.
Psychology	M.A., Ph.D.	Ph.D., fall only; M.A., all terms.	February 1 for clinical program; Standard* for experimental and social programs.	Letters of recommendation: two for M.A.; three for Ph.D. GRE General and Advanced Psychology required. Consult department for details.
Sociology	M.A., Ph.D.	All terms.	Standard.*	Two letters of recommendation. GRE General recommended but not required.

Kogod College of Business Administration

M.B.A., M.S., J.D./M.B.A.	All terms.	Standard.* Note: Although applications will be considered until May 1, the Feb. 15 deadline ensures timely processing.	Two letters of recommendation from professors or employers; GMAT for all programs. Applicants for the JD/MBA must take both LSAT and GMAT and apply directly to the Washington College of Law.
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- * The standard deadlines for application are: Fall, February 15; Spring, November 1; Summer, March 15. The deadlines for international applicants not in the U.S. are: Fall, February 15; Spring, October 1; Summer, March 15. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 15 regardless of the teaching unit's application deadline. Consult the current Guide to Graduate Admission and Financial Awards for complete information.

Graduate Admission Requirements (continued)

Teaching Unit	Degrees Offered	Applications Accepted for	Application Deadline	Requirements in Addition to University Requirements (Note: For degree, grade-point average, and test-score requirements, consult the individual program descriptions in this publication.)
<i>International Service, School of</i>				
	M.A., J.D./M.A., M.S., Ph.D.	Fall only.	Standard.* Ph.D.: January 15. Financial aid: February 15.	Two letters of recommendation for M.A., M.S.; three for Ph.D. GRE General. International Students educated abroad must take TOEFL in addition to the GRE. For J.D./M.A., applicants must have completed first year in the Washington College of Law. LSAT accepted in place of GRE.
<i>Washington College of Law</i>				
	J.D., J.D./M.A., J.D./M.B.A., J.D./M.S.	Entering students: fall only; advanced students: all terms.	Entering students: March 15.	Baccalaureate degree from an accredited college or university; LSAT; LSDAS. For the J.D./M.B.A., applicants must take both the LSAT and the GMAT. Apply directly to the Washington College of Law.
<i>School of Public Affairs</i>				
Government	M.A., Ph.D.	M.A.: all terms; Ph.D.: fall.	M.A.: February 1 for financial awards; Ph.D.: February 1.	Two letters of recommendation; M.A.: GRE General required for financial awards, essay on career interest; Ph.D.: preference given to full-time candidates; GRE General and statement of purpose required.
Justice, Law, and Society	M.S., J.D./M.S., Ph.D.	All terms.	Standard*, M.S., Ph.D.: February 1 for financial awards.	Two letters of recommendation; GRE General required of U.S. citizens; TOEFL of others for M.S.; J.D./M.S. applicants must have completed first year in Washington College of Law; LSAT scores may be used in place of GRE scores for J.D./M.S. applicants.

- * The standard deadlines for application are: Fall, February 15; Spring, November 1; Summer, March 15. The deadlines for international applicants not in the U.S. are: Fall, February 15; Spring, October 1; Summer, March 15. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 15 regardless of the teaching unit's application deadline. Consult the current *Guide to Graduate Admission and Financial Awards* for complete information.

Graduate Admission Requirements (continued)

<i>Teaching Unit</i>	<i>Degrees Offered</i>	<i>Applications Accepted for</i>	<i>Application Deadline</i>	<i>Requirements in Addition to University Requirements (Note: For degree, grade-point average, and test-score requirements, consult the individual program descriptions in this publication.)</i>
Public Administration	M.P.A., M.S.H.R., Ph.D.	M.P.A.: all terms; M.S.H.R.: consult dept.; Ph.D.: fall.	M.P.A.: standard*; M.S.H.R.: consult dept.; Ph.D.: February 1.	Two letters of recommendation; M.P.A.: GRE General required for financial awards, essay on career interest; M.S.H.R.: Two years of managerial experience. Ph.D.: preference given to full-time candidates; GRE General and statement of purpose required.
Public Financial Management, Center for	M.P.F.M.	All terms.	Standard.*	Two letters of recommendation; GMAT scores required after admission to the program. Students whose first language is not English must take TOEFL.

Special Programs

Interdisciplinary Studies	M.A., M.S.			Graduate students must first be accepted into another program and may then transfer into an interdisciplinary studies program.
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- * The standard deadlines for application are: Fall, February 15; Spring, November 1; Summer, March 15. The deadlines for international applicants not in the U.S. are: Fall, February 15; Spring, October 1; Summer, March 15. To be considered for graduate financial awards, the application for graduate admission and the application for graduate financial awards must be on file no later than February 15 regardless of the teaching unit's application deadline. Consult the current Guide to Graduate Admission and Financial Awards for complete information.

University Degree Requirements

It is university policy that no student shall be involuntarily subjected to regulations and academic requirements introduced during the student's continuous enrollment in good standing in a single degree program if the new regulations involve undue hardships or loss of academic credits earned to satisfy the requirements previously in effect.

Graduate students are governed by the following minimum requirements for the graduate degree (each teaching unit may have further requirements). Graduate students are advised to consult their own adviser, department chair, or dean for detailed information.

Credit-Hour and Residence Requirements

Master's Degrees

At least thirty credit hours of graduate work including (a) six credit hours of research resulting in a thesis (the thesis option) or (b) six credit hours of graduate work with grades of B or better involving a case study, an in-service project, an original creative work, specified research courses, or such other effort as the academic unit may designate (the nonthesis option).

At least twenty-four of these hours, including the thesis or nonthesis option, must be completed in residence at The American University. Up to twelve credit hours taken in nondegree status at The American University may be counted toward the degree, or up to eighteen credit hours if earned in a completed graduate certificate program.

Doctoral Degrees

For students admitted to graduate work at The American University without a previously earned master's degree, the requirement is seventy-two credit hours of graduate study including no fewer than twelve and no more than twenty-four hours of directed study on the dissertation. At least forty-two of these hours, including the research requirement, must be completed in residence at The American University. Up to twelve credit hours taken in nondegree status at The American University may be counted toward the degree, or up to eighteen hours if earned in a completed certificate program. Course credit earned toward a master's degree at The American University may, if relevant, be counted toward the Ph.D. degree.

For students admitted with a master's degree earned previously, the requirement is at least forty-two credit hours of additional graduate work, of which thirty-six hours, including the research requirement, must be completed in residence at The American University.

Prerequisite Undergraduate Credit

Credit earned in undergraduate courses taken as required prerequisites for other courses by graduate students may not be counted toward satisfying the total credit requirement for a graduate degree, and grades earned in

such courses are not used in calculating the student's grade-point average.

Graduate-Undergraduate Courses

Graduate students may take graduate-level courses that meet with undergraduate-level courses. However, no more than fifty percent of course work taken in residence (not counting thesis or dissertation seminars without regular meetings) may be taken in joint graduate-undergraduate courses.

Grade Requirements

Students enrolled in a graduate program must maintain a cumulative grade-point average of at least 3.00 in order to remain in good standing and to graduate. The calculation of the graduate cumulative grade-point average is specific to the program in which a student is enrolled. Only graduate-level American University courses that are accepted by the degree-conferring teaching unit as fulfilling degree requirements are included in the cumulative grade-point average.

Minimum Grades

No degree credit is earned by a graduate student for any grade lower than C (2.00) received in a graduate-level course. However, grades lower than C (2.00) are used in calculating the grade-point average.

Tools of Research

Each academic unit specifies the tool-of-research requirement. Tools should relate to research in the student's discipline. The student's satisfaction of tool requirements is certified by the teaching unit, but aid in ascertaining this may be sought outside the unit.

Advancement to Candidacy

Each academic unit may at its discretion require a formal advancement to candidacy and determine the nature of the advancement procedure it will use.

Examinations

Master's Degrees

At least one comprehensive examination, the nature and scope of which are determined by the academic unit, is required.

An oral examination on the thesis may be required by the academic unit.

Doctoral Degrees

At least four comprehensive examinations are required, at least one of which must be oral. At least two of the comprehensive examinations must be written and must be taken within one year following the completion of the residence requirement. A qualifying examination and

master's comprehensive examination, if taken at The American University, may, at the discretion of the academic unit, be credited toward the comprehensive requirements for a doctoral degree. Comprehensive examinations given by other institutions will not be credited toward the satisfaction of degree requirements.

An oral examination on the dissertation is required.

Examination Timetable

For both master's and doctoral degree students, the dean or department chair (or designated representative) determines the time and eligibility for taking the comprehensive, tool, and (where required) oral examinations.

Application to take comprehensive examinations is made to the academic unit on a standard form available from that office. After approval is obtained, the student pays the appropriate fee at the Office of Student Accounts. In most cases, students should plan to apply during the first week of classes of the semester in which they plan to take the examinations.

Examination Fields

Although fields for comprehensive examinations may have been planned early in the graduate student's academic career, it is possible to change the fields up to the time the student actually submits an application to take the comprehensive examinations. Each college, school, or department offers its current list of standard comprehensive examination fields, including certain "core" fields and areas in which candidates in particular degree programs must present themselves for examination. (These fields are listed under the various teaching units in this publication.) A student may choose from the list (including the required core) the ones that are appropriate to the student's own interests and objectives.

In some disciplines, it is possible to choose a field outside the major area of interest, but such a field must be one that is available at the time of the candidate's application to take the comprehensive examinations.

Examination Grading

Usually, each comprehensive examination written by a candidate is read by two readers and is rated "distinction," "satisfactory," or "unsatisfactory" by each. In order to pass the examinations, the candidate must obtain at least satisfactory from both readers in each of the examination fields. In the event of a disagreement in the ratings between readers as to whether or not the candidate should pass, a third reader is appointed to break the deadlock.

Each dean or department chair may, however, elect to determine a different system of grading comprehensive examinations. Students should consult the specific college, school, or department to ascertain what system is used. The system described above is the traditional one used by most of the university.

Re-examination

Comprehensive Examination: A student who fails a comprehensive examination (other than a qualifying examination) may be permitted additional attempts within two years. The nature and extent of the examination to be retaken and the number of retakes allowed will be deter-

mined by the academic unit. Teaching units may establish their own rules for retaking qualifying examinations.

Thesis and Dissertation Oral Examinations: In the event of failure to complete the oral examination satisfactorily, the academic unit may, at its discretion, permit one retake.

Theses and Dissertations

Thesis and Nonthesis Options

For master's candidates, the thesis is expected to demonstrate the student's capacity to do original, independent research. Some colleges, schools, and departments offer the opportunity to substitute a case study, an in-service project, an original creative work, or specific advanced research courses in lieu of a thesis. In each such case, the thesis seminar or other accepted alternative must be considered part of the residence requirement for the master's degree and must meet the standards of the individual college, school, and department as well as those of the university.

No academic credit is given for the master's thesis unless the student registers for the thesis seminar. However, a student should not enroll for this seminar until ready to start work on the formal thesis proposal or the thesis itself. Traditionally, an advisory committee is appointed for each candidate working on a thesis. The committee may be composed of no fewer than two members, at least one of whom must be a member of the full-time faculty. An oral examination by this committee is often required. Suggestions for revision may be made as conditions that must be met before members will sign the title page of the thesis. If the chair of the thesis committee or the department chair certifies failure to complete a satisfactory thesis, the student may be dismissed from the university.

A student who writes a thesis must adhere to the required form and content for the proposal and to the other procedures described in detail in the published guides that may be obtained from the office of the dean of the college or school.

Students electing the nonthesis option should consult the individual program descriptions in this publication and obtain specific departmental requirements from their teaching units. The university minimum requirement is two research-oriented courses. These courses must be completed with grades of B or better.

Dissertation

Capping the requirements for the doctorate is the dissertation, together with the required oral examination of the dissertation by the student's teaching unit. Normally, the candidate must have completed all other academic requirements for the degree before the oral examination can be held.

A candidate who is declared ready to proceed to the dissertation must submit a dissertation topic proposal reporting the results of preliminary research. This proposal should contain, among other things, a concise statement of the major problem of research and of related supporting problems, the data to be used, a selected bibliography, a statement of the probable value or importance of the study,

a brief description of the methods to be used, and a preliminary outline of the dissertation in some detail.

After approval of the proposal by the candidate's adviser, it is presented to the dean of the college or school for final approval. Acceptance of the proposal indicates that the topic is a suitable one and that the dissertation will be accepted if developed adequately by the candidate. The university will take responsibility for directing research only in fields and problem areas that its faculty members feel competent to handle. Acceptance of a dissertation topic proposal under no circumstance commits any department or school or the university to accept the dissertation itself.

A dissertation advisory committee of three to five persons is usually appointed by the candidate's academic dean for each candidate undertaking a dissertation. After the draft manuscript has received the tentative approval of all members of the committee, the committee chair arranges for the oral examination. This covers the dissertation itself and the general field in which it lies. All members must agree that the candidate has passed the oral examination. Conditions to be met before final acceptance of the dissertation may be specified without necessarily holding a second oral examination. If the chair of the dissertation committee or the department chair certifies failure to complete a satisfactory dissertation, the student may be dismissed from the university.

Protection of Human Subjects

Any proposed thesis or dissertation in which research will involve experimenting on, interviewing, surveying, or observing human beings is subject to review under the regulations of The American University to determine whether the researcher has made adequate provision for the protection of human subjects. The American University regulations are based on 45 Code of Federal Regulations 46, "Protection of Human Subjects."

Candidates who request outside funding for research have their proposals reviewed by the University Institutional Review Board. If no outside funding is involved, the teaching unit designee conducts the review. Each candidate is requested to complete The American University Institutional Review Board form, Report of Research Proposal Review. It is the responsibility of the degree candidate to submit it for review and to make any revisions required to the research plan to bring it into compliance.

A copy of The American University regulations and the review form are available from the teaching unit chair or designee for human subject review, or from the review board office in the Office of Research, Grants, and Contracts.

Thesis or Dissertation Progress

It is the collective responsibility of the student, the student's adviser, and the student's committee to ensure that satisfactory progress is being made on the student's thesis or dissertation. The student may request, at least once each semester, that the committee meet with him or her to discuss progress.

Final Manuscript

Candidates are responsible for being familiar with and complying with the regulations concerning the form and

preparation of the final manuscript, abstract, copyright, and so forth, which may be obtained from the dean or department chair of the teaching unit offering the doctorate. Certain deadline dates are found in the *Schedule of Classes* published for each academic term. These must be met if a candidate expects to receive a degree at the appropriate commencement.

Filing of Thesis or Dissertation

On completion of the final manuscript, a student obtains the signature of the department chair and dean on the Thesis/Dissertation Completion form, and takes the form and the manuscript to the Office of Student Accounts to pay the fee. This fee is required for entering into the mandatory agreement with University Microfilms. Every thesis and dissertation must be microfilmed. The student then proceeds to the Office of the Registrar for certification of the completion of degree requirements, and then to the library for filing of the manuscript. This procedure is to be followed after all other requirements for the degree have been satisfied.

Publication

It is the policy of the university to encourage publication of dissertations, case studies, and theses, with acknowledgment to the university. If substantial alterations are made before publication, this fact must be noted in the prefatory statement that gives acknowledgment.

Academic Standards and Regulations

Academic Probation and Dismissal

A graduate student who fails to maintain a 3.00 grade-point average after completion of the first twelve credit hours of graduate study may be placed on academic probation for one semester, after which the student must achieve and maintain a 3.00 average or be dismissed. A graduate student may be placed on academic probation only once. It should be noted that the grade-point average is only one measure of academic performance. Maintenance of the required average does not necessarily imply that a student is making satisfactory progress, and the university reserves the right to dismiss a student whose performance is judged unsatisfactory even though the student has maintained the required grade-point average. A student who is dismissed may not be readmitted to the university or enroll as a nondegree student for a full year after the effective date of the dismissal.

Academic Load and Full-Time Status

The normal load of full-time graduate study is nine to twelve credit hours a semester; however, an academic unit may declare circumstances under which full-time involvement in thesis or dissertation research constitutes full-time standing.

In summer sessions, because of the combination of six-week and seven-week sessions, there are various possibilities for full-time standing. Usually, registration for six credit hours during any session is considered full time.

Maintaining Matriculation

Students whose degree requirements have not been completed must register each fall and spring semester during regular registration periods for courses, for thesis or dissertation seminars, or for maintaining matriculation. Those who do not will be considered as having withdrawn. Such students may then reapply and, if readmitted, are governed by requirements and regulations in effect at the time of readmission.

Students who change degree objective, college, or school, whose candidacy for an advanced degree expires, or who choose to conform to new regulations or requirements must be prepared to complete all requirements and abide by all regulations in effect at the time such a change is made.

Statute of Limitations

Candidates for a master's degree must complete all degree requirements no later than three years after the date of first enrollment in the degree program. Candidates for the doctoral degree must complete all degree requirements no later than five years after the date of first enrollment in the doctoral program, or seven years if the doctoral program was entered directly from a bachelor's degree.

A student may petition for an extension of candidacy in a degree program for a limited period if such extension is sought before these time limits expire. In no case may the total amount of time granted in extensions of candidacy exceed three years. If, however, the time limit has expired, a student may seek readmission to the university for a period of no more than three years, less any time granted in previous extensions of candidacy.

Readmission to an advanced degree program may involve completing additional courses or other appropriate work. Any degree calling for additional undergraduate prerequisite courses has the statute of limitations extended for the amount of time required to complete them.

All But Dissertation Master's

Students who enter a doctoral program without a master's degree may be awarded the appropriate master's degree by The American University in the field in which their doctoral work is being done when they have com-

pleted all requirements for the doctorate except the dissertation.

Leave of Absence

Graduate students are not eligible for a Leave of Absence, except for reasons of military or government assignment required as a direct result of hostilities or war in which the United States is engaged, or for incarceration resulting from refusal to accept induction under such circumstances. In such instances, a tuition refund will be given and other charges prorated on the basis of the number of weeks during which the student was registered for classes in a given semester. If a student has completed at least ten weeks of a session, he or she may be given full credit for any course, subject to the approval of the instructor and department chair. Additional work may be required. No tuition refund will be given for courses for which credit was given.

A student whose studies are interrupted for the reasons stated above may resume study at The American University in the same degree program, provided he or she returns within a period of six months following the completion of duties and provided that the degree program in which the student was enrolled is still offered. A student who wishes to be enrolled in a different degree program must apply for readmission.

Changes in Field of Study

A graduate student who wishes to change field of study or school affiliation may request an approval of the change on the appropriate form available in the Office of the Registrar. A graduate student who wishes to change colleges must apply through the Office of Graduate Affairs and Admissions. A student who changes field of study may lose credit already earned in other study that is not appropriate to the new program.

Study at Another Institution

In a program of graduate study, circumstances may arise wherein a graduate student, with the advice and counsel of the student's academic unit, may find it appropriate to take a graduate course available only at a non-consortium institution. In this event, the student must secure in advance approval in writing from his or her adviser and dean. Approval is granted for specific courses. The student must, however, conform to regulations governing the maintenance of matriculation at The American University during each fall and spring semester. In addition, the student must still satisfy the residence requirement of the university.

Transferred courses must be completed with a grade of B or better for graduate degree credit. Grades for transferred courses are not recorded on The American University's permanent record or computed in the student's grade-point average.

Nondegree Study

The nondegree program of The American University enables qualified students to register for regular university course work without being admitted to a degree program. Many individuals begin their studies in nondegree status and transfer the credit they have earned into a degree program in one of the schools or colleges of the university.

Enrollment Criteria

Nondegree students may enroll in any university course for which they have the necessary academic background and qualifications.

Undergraduate-level courses are open to high school graduates; individuals in good standing at other accredited colleges and universities; students with an undergraduate degree; high-school juniors and seniors who have a B average and the recommendation of their high-school counselor or principal.

Graduate-level courses are open to students who have completed a bachelor's degree.

Advanced graduate-level courses are open to students who have completed a master's degree.

International Students: Special regulations apply for students who are not citizens of the United States of America, including those with permanent resident status (See "International Student Information"). International students are advised to begin their application for permission to enroll in nondegree status about three weeks before the beginning of the semester.

The following students ordinarily may not register in nondegree status:

- students currently enrolled as undergraduate- or graduate-degree students in any of the member institutions of the Consortium of Universities of the Washington Metropolitan Area;
- American University students who have not completed their degree programs;
- students who have ever been dismissed from The American University or another college or university;

- those who have been denied admission to a degree program at The American University.

Special Departmental Requirements

Students registering in any course at the 600 or 700 level must obtain departmental approval.

Approval must be obtained for all courses in the following departments: Applied Music, Art: Studio and Design, Communication, Community Studies, and English Language Institute.

To register for undergraduate Kogod College of Business Administration courses, students must be able to demonstrate that the course prerequisites have been met. If prerequisites have been completed at a college or university other than The American University, students must bring copies of the appropriate transcripts.

To register for graduate-level Kogod College of Business Administration courses, students must meet grade-point average requirements set by the Kogod College of Business Administration and have satisfactory GMAT scores. Students must provide copies of all undergraduate transcripts and the GMAT results. Those who have not taken the GMAT are required to register to take the test on the next scheduled test date.

Registration

Nondegree students register for courses through the University Programs Advisement Center. Information on university degree programs, certificate programs, and non-credit workshops and seminars is available at the Advisement Center, which is staffed with experienced academic advisers who are familiar with the particular needs of part-time and adult students.

Academic Standards

Nondegree students are held to the same academic standards as degree students. Undergraduate students must maintain a 2.0 (C) grade-point average; graduate

students must maintain a 3.0 (B) grade-point average.

Transferring from Nondegree to Degree Status

Students may transfer a specified amount of credit earned in nondegree status into a degree program.

Undergraduate students may transfer up to thirty credit hours taken in nondegree status into an undergraduate degree program.

Graduate students may transfer up to twelve credit

hours of graduate-level courses taken in nondegree status into a graduate degree program or up to eighteen hours if earned in a completed certificate program.

Students planning to transfer academic credit from another institution into an undergraduate degree program should consult with an academic adviser before their first nondegree registration and should bring with them all transcripts of previous college work.

To apply to a degree program students must submit the appropriate application forms and supporting documents.



International Student Information

The following regulations apply to all students who are not citizens from the United States of America, including students with permanent immigrant status.

Degree Admission

In addition to submitting the university's application for admission and meeting the requirements set forth in the application, all international applicants to undergraduate-degree programs must arrange to have official transcripts from all secondary schools attended sent to The Office of Undergraduate Admissions. International applicants to graduate degree programs must arrange to have official transcripts from all colleges attended sent to The Office of Graduate Affairs and Admissions. These documents should be sent well in advance of the semester for which the applicant seeks admission. Personal student papers, photostats, or attested copies are not accepted for evaluation purposes.

All international students whose first language is not English and who are applying for admission as undergraduate or graduate degree students must take the Test of English as a Foreign Language (TOEFL) before registering for classes. Information regarding procedures for taking this test may be obtained from TOEFL, Educational Testing Service, Princeton, New Jersey 08541, U.S.A., or from secondary-school counseling offices, U.S. consulates, or binational centers. Students who submit TOEFL exam scores of 600 or above are considered for waivers from courses in English as a second language.

Nondegree Enrollment

All international nondegree students must begin their registration in the University Programs Advisement Center and must present evidence of successful completion of high school (or its equivalent) and of courses taken in any colleges or universities attended. Nondegree international students should present photocopies of translated documents for evaluation and counseling purposes. These docu-

ments remain in the student's file in the Advisement Center. International students in nondegree status must request that official documents be sent to the office of undergraduate or graduate admissions when they apply for admission to a degree program.

English Language Requirement

All students, degree and nondegree, whose first language is not English are required to have their English proficiency evaluated by the English Language Institute before their first registration. International students whose command of English is insufficient to follow the program in which they wish to enroll will be required to take special courses in English as a second language.

Students placed in four English classes (Intensive English) may not take any other courses concurrently. Exceptions require the permission of the English Language Institute and the student's academic adviser.

Visa Requirements

Students on nonimmigrant F-1 and J-1 visas are required by U.S. Immigration and Naturalization Service regulations to maintain a full-time course-load enrollment during fall and spring semesters. If the student's first term is a summer session, the full-time course-load requirement will apply for that summer.

In compliance with these regulations, undergraduate students are required to register for at least twelve credit hours or four English Language Institute courses each semester, and graduate students for at least nine credit hours or four English Language Institute courses. Any change in registration which results in a course load below these minimum requirements must be authorized by the Office of International-Intercultural Student Services in consultation with the student's academic adviser.

Students who fail to meet these requirements are not eligible to receive a Certification of Eligibility (I-20), Form IAP66, or any other letters of certification in support of their

continuation in nonimmigrant F-1 or J-1 visa status. They also lose their eligibility for on-campus employment, practical training, and other immigration benefits.

All students bearing Nonimmigrant Foreign Student visas are required to attend, initially, the educational institution which issued the Certification of Eligibility (Form I-20), or IAP66, used to obtain the F-1 or J-1 visa.

Students bearing F-1 or J-1 visas are reminded that a change of schools from one U.S. educational institution to another must be made according to U.S. Immigration regulations. Such changes are handled through the Office of International-Intercultural Student Services.

Students in Exchange Visitor (J-1) visa category requesting transfer to The American University's exchange-visitor program from another exchange-visitor program must obtain written approval from the Office of International-Intercultural Student Services before admission to the university becomes valid. This requirement applies to all students entering the university for the first time who hold a J-1 visa at the time of admission.

Questions concerning United States Immigration and Naturalization Service regulations governing foreign students, exchange visitors, or foreign researchers or faculty should be directed to the Office of International-Intercultural Student Services, Butler Pavilion 408; telephone: 885-3350. Regular office hours are Monday through Friday, 9:00 a.m. to 5:00 p.m.; extended hours are followed during registration.

Health Insurance

Health insurance is mandatory for all students residing in university housing and for all full-time international students with F-1 or J-1 visas. This can be either private, group, or the university health insurance plan. It is strongly advised that all other students have some form of health insurance coverage while attending The American University.

Resident students and full-time international students with F-1 or J-1 visas who are already covered by health insurance must fill out a waiver form confirming their enrollment in a comparable insurance plan. The waiver form is available in the Student Health Center, Nebraska Hall. Resident students and full-time international students with F-1 or J-1 visas who do not submit waiver forms are required to enroll in the university's group health insurance program.

Registration Procedures

In addition to the normal registration instructions, the following regulations apply to international students.

1. All students who are not citizens or permanent residents of the United States are required to obtain the signature of the international student adviser at the time of registration for courses. This includes special group registration as well as regular registration.
2. New international students, whether degree or non-degree, must take an English proficiency test required by the university before they register. (See "English Language Requirements" above.)
3. International students may take courses in the university's off-campus program, however they must complete their registration on-campus.
4. All new nondegree international students should begin their registration in the University Programs Advisement Center at least five working days before the end of registration. Failure to do so may cause the new nondegree international student to be registered during the period of late registration and therefore to be subject to the late registration fee. Students must present translated copies of their previous academic records in order to enroll.

English Language Institute

International students wishing to enroll in the English Language Institute, either full time or part time, must have completed the equivalent of a U.S. high-school education (twelve years of schooling).

Students who are applying for permission to enroll in the English Language Institute for English only do not have to take the Test of English as a Foreign Language (TOEFL).

After filing an application, a financial verification form, and notarized and translated academic transcripts or proof of completion of high school, students who are accepted will be sent a formal letter of acceptance from the English Language Institute and a Certificate of Eligibility (Form I-20) for a student visa (if required) from the Office of International-Intercultural Student Services.

Admission to intensive English courses in the English Language Institute in no way implies eligibility for admission to any program or course of study in other divisions of The American University. See the English Language Institute section under Special University Programs for Study and Research in this publication.

Information and course dates will be mailed upon request by writing to the English Language Institute, The American University, Washington, D.C. 20016, U.S.A., or by calling (202) 885-2147.

Tuition, Expenses, and Financial Aid

Tuition and Expenses

Undergraduate students who register for twelve to seventeen credit hours are assessed tuition at the full-time rate. Undergraduate students who register for fewer than twelve credit hours are assessed tuition based on the number of credit hours taken. Undergraduate students who register for more than seventeen credit hours are charged the full-time tuition rate with an additional charge for each semester hour over seventeen.

Graduate and nondegree students are assessed tuition per semester hour.

The off-campus tuition rate differs from the rate for on-campus courses. Full-time undergraduate students, however, who register for courses both on and off campus are assessed tuition at the on-campus full-time rate.

Washington College of Law students are assessed tuition on the same basis as are undergraduate students. However, the Washington College of Law tuition rate differs from that of the rest of the university.

Given probable continuation of current economic conditions, as well as the need to continue to accelerate the academic development of the university, it is reasonable to expect that tuition and fee increases will be required for each year in the near future. The university will attempt, however, to limit tuition and fee increases to reasonable levels.

Tuition and General Fees, 1989-1990

Tuition

Undergraduate Students

Full-time (12-17 credit hours) \$5668

Part-time (per semester hour) 379

Graduate Students (per semester hour) 399

Law Students

Full-time (12-17 credit hours) 6433

Part-time (per semester hour) 477

(For the purpose of determining full-time status, non-credit courses will be included in and equated with credit courses according to the number of scheduled meetings each week.)

Nondegree Students (per semester hour) 379

Off-Campus Programs

Full-time (12-17 credit hours) 5130

Part-time (per semester hour) 342

Auditors pay the same charges as students enrolled for credit and are subject to all applicable special fees listed below.

Institutes: Charges for institutes and other special courses may be found listed under their departments and schools in the *Schedule of Classes* published each academic term.

Residence Hall and Board Charges

Residence Hall Charges per Semester Campus Dormitory

Single Occupancy \$2012

Converted Double 2352

Double Occupancy 1631

Triple Occupancy 1190

Capital, Congressional, and Federal Halls

Single Occupancy \$2012

Converted Double 2352

Double Occupancy 1631

Centennial Hall

Single Occupancy \$2439

Double Occupancy 1934

Glover-Turnlaw Residence Hall

Units leased on an annual basis during the period

June 1-May 31 at the following monthly rates:

One-Bedroom Unit (per month) 575

52 Tuition, Expenses, and Financial Aid

Two-Bedroom Unit (per month)	810
<i>Nebraska Hall</i>	
Single Occupancy	\$2352
Double Occupancy	1847
<i>Residence Hall Association Fee</i>	6
(Optional: will be waived only on submission of waiver form to the Office of Residential Life before the end of the first week of classes. Once paid, this fee is nonrefundable.)	
<i>Board Charges per Semester</i>	
7 Meals a Week Contract	\$679
10 Meals a Week Contract (five days)	\$877
14 Meals a Week Contract (seven days)	.948
19 Meals a Week Contract (seven days)	.983

Special Fees

These fees are nonrefundable. The charges listed below are not included in tuition and general fees.

Special course and laboratory fees are listed under the individual departments and schools in the *Schedule of Classes* published for the academic term and are also nonrefundable.

<i>Admission Application Fee</i>	
Undergraduate	\$35
Graduate	35
Law	45
Readmission Fee	35
Reinstatement Fee	25
American Installment Plan Program Fee (per year)	50
American Installment Plan Late Fee (per monthly payment)	10
Deferred Payment Plan Fee (per semester)	40
Late Registration Fee (Effective the first day of the term.)	50
Alumni Audit Program Registration Fee	50
Alumni Audit Late Registration Fee	10
Student Picture ID Card Replacement Fee	5
Faculty/Staff Registration Fee (For employees of the university or their spouses or children registering under the tuition-reimbursement benefit.)	50
Admission Testing Fee (per test)	5
Official Transcripts Fee (per transcript)	2
Law School General Fee (per semester)	
Full-Time Students	100
Part-Time Students	75
Summer	20
Student Confederation Fee (per semester)	
Full-Time Students	50
Part-Time Students (Mandatory for all undergraduate degree students.)	10
Health Fee (per semester) (Not charged separately to full-time campus residents; required of all others who wish to use student health center facilities.)	35
<i>Sports Center Fee</i>	
Full-Time Fee (per semester)	50
Part-Time Fee (per semester)	25
General Parking fee (per year)	140
Resident Student Parking (per year)	230
Resident Student Reserved Parking (per year)	286
Evening Parking (per year)	72

Returned Check Fee (For personal checks not honored by the bank.)	15
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Graduate Student Fees

Graduate Student Council Fee (per semester) (Mandatory for all graduate students, full-time and part-time.)	\$15
Maintaining Matriculation Fee (per semester)	399
Comprehensive Examination Application Fee (per examination)	
Master's and Doctoral	25
Additional Fee if in <i>Absentia</i>	100
<i>Microfilming</i>	
Master's Thesis or Case Study	25
Doctoral Dissertation	35

Graduation Fee

Graduation Application Fee	\$25
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Note: For estimated total yearly cost of attendance at The American University, see "Financial Aid" below.

Payment

Students participating in advance registration must pay the balance due on or before the due date as indicated on the bill sent from the Office of Student Accounts.

Students participating in direct registration must pay the balance due on the day they register.

Deferred Payment Plan

Registered students whose total bill, after deducting all forms of tuition assistance, exceeds \$2200 may elect the deferred payment plan. Under this plan, the student pays one-half the amount due by the initial due date and the remaining balance approximately seven weeks later. The amount due includes all charges, billed or unbilled, which have been incurred or will be incurred during the current semester.

The charge for the university deferred payment plan is \$40 each semester (not refundable).

Late Payments and Financial Stops

A late fee of \$50 may be assessed against a student's account for failure to meet the initial payment due date. A late fee of \$50 will be assessed for failure to meet the deferred payment due date.

In addition, failure to make payment when due will result in a financial "stop" being placed on student's account. The financial stop will in turn result in a "hold" being placed on the student's academic records, including transcript and diploma, and may result also in denial of advance registration and use of the deferred payment plan or other credit privileges. Financial stops may be removed following assessment and payment of a \$25 reinstatement fee.

A student who has once had a financial stop placed against his or her account may be denied future advance registration and deferred plan privileges even though the student has been reinstated on payment of the reinstatement fee. Repeated failure to make payments when due

may result in severance of the student's relationship with the university.

Cancellation of Charges

The appropriate forms, available in the offices of the deans and in the Office of the Registrar, must be completed to withdraw officially or to reduce course load. The amount of tuition to be canceled will be calculated as of the date on which the withdrawal forms are received at the Office of the Registrar and in accordance with the tuition cancellation schedule in the *Schedule of Classes*.

Complete withdrawal from the university during or before the first week of classes will result in full cancellation of tuition charges provided the withdrawal form is received in the Office of the Registrar and dated no later than the first week of classes.

A full cancellation of tuition will also pertain to a course dropped during the first week of classes. Course drops that result in course-load reduction during or before the first four weeks of classes are subject to the percentage cancellation schedule published in the *Schedule of Classes* for the semester.

Requests for refunds are made at the Office of Student Accounts.

Discontinuing attendance in class or notifying an instructor does not constitute an official withdrawal. Students who do not officially withdraw during the cancellation period will be responsible for payment of the full amount of the applicable tuition and fees.

Requests for cancellation of room charges must be made through the Office of Residential Life.

Requests for cancellation of meal booklets must be processed through the Food Service Office.

Payment by Employer or Agency

A student requesting employer or agency billing arrangements must furnish the Office of Student Accounts with a valid contract or purchase order before the first day of classes. A contract or purchase order must contain the following information: (1) student name and social security number, (2) term of attendance, (3) specific costs and amounts to be paid by the sponsor (tuition, books, supplies, and fees), (4) sponsor's billing address, and (5) contract or purchase order number or accounting appropriation, if applicable. Documentation submitted in lieu of a valid purchase order will not relieve a student of financial responsibility. It is the student's responsibility to notify the Office of Student Accounts of any course or section changes and, if necessary, to submit a modified contract.

In case of partial assistance, the student is required to pay the balance of his or her tuition costs at the time of registration in order to be considered registered. If the amount the student must pay qualifies for the university deferred payment plan, it is to be paid by the deferred due date. Failure to comply will result in the assessment of a late payment fee. See "Late Payments and Financial Stops" above.

A student entitled to Campus Store credit may obtain a book charge form from the Office of Student Accounts. Purchases are permitted through the end of the add-drop period. (For special extensions, consult the Office of Student Accounts.)

A student is responsible for payment of any billed amounts which have been disallowed by his or her sponsor.

University Employee Benefits

Only full-time permanent faculty or staff employees of The American University are eligible for tuition benefits. There is a nonrefundable \$50 registration fee.

Applications for faculty, staff, and spouse benefits are available at the Office of Staff Personnel Services. The completed application must be approved by the Office of Staff Personnel Services and submitted to the Office of Student Accounts at the time of registration.

Advance-registered students should submit the approved form by the beginning of the semester.

Tuition benefit forms for children of faculty or staff employees are available at the Office of Staff Personnel Services.

Financial Aid

All new or readmitted students must follow these steps to receive priority consideration for financial aid:

1. Submit admissions applications and all necessary supporting documents to the Office of Admissions by the appropriate deadlines.
2. Complete a 1989-1990 Financial Aid Form (FAF) as soon as possible after January 1, 1989.
3. Mail the form to the College Scholarship Service no later than January 31, 1989, so that the service's analysis of the FAF is received in the Office of Financial Aid by March 1, 1989, the priority deadline.

Applications received after March 1, 1989 will be reviewed after on-time applications on a first-come-first-served basis as long as funds are available.

New students should not wait to be admitted before filing the FAF. A financial aid application has no bearing on a student's admission application. However, a student will not receive final consideration for aid until he or she is admitted to a degree program.

All transfer, graduate, and law students must provide a financial aid transcript from all postsecondary schools attended.

Undergraduate

The American University has an extensive program of scholarships, loans, and grants. See "American University Programs" below.

The college-based federal programs include: Carl D. Perkins Loans; Supplemental Educational Opportunity Grants (SEOG); and College Work-Study (CWS). Pell Grants are available through application to the federal government, and Stafford Loans (formerly Guaranteed Student Loans), Parent Loans for Undergraduate Students (PLUS), and Supplemental Loan for Students (SLS) are available from banks, credit unions, and other lenders. See "Filing Instructions" below for information concerning application procedures.

Graduate

College-based federal programs include: Carl D. Perkins Loans and College Work-Study (CWS). Graduate Honor Awards and graduate fellowships and assistantships are available. Information concerning application procedures is given in "Filing Instructions" below.

Stafford Loans and PLUS/SLS loans are available from banks, credit unions, and other lenders.

Students in the Washington College of Law should use the Financial Aid Form to apply for Perkins Loans and CWS and the Graduate and Professional Student Financial Aid Service (GAPSFAS) form to apply for Washington College of Law financial aid programs. The law school recommends that students file the GAPSFAS by February 1, 1989. Guaranteed student loans and PLUS/SLS loans are available from banks, credit unions, and other lenders.

Filing Instructions

(1) Incoming students must complete the American University Application for Admission. A student will not receive final consideration for aid until he or she is admitted to a degree program.

(2) Incoming and continuing students should file a Financial Aid Form (FAF) with the College Scholarship Service (CSS) at the address given on the form and request CSS to send a copy to The American University (code 5007). Students will be considered for all programs for which they are eligible. Awards are based on the student's need and the amounts and kinds of assistance available; however, funds are limited. Awards are made beginning in late March, and students with complete financial aid files receive first consideration for the monies available. Aid recipients must reapply each academic year to be considered for further funds.

Be sure that the FAF is for the same academic year for which the application for aid is made. If the applicant is requesting aid for the 1989-1990 academic year, the 1989-1990 FAF must be submitted. The form is available from most secondary schools and colleges and from The American University, Office of Financial Aid.

(3) File financial aid transcripts (if appropriate). All incoming transfer, graduate, and law-school aid applicants must submit a financial aid transcript from all institutions previously attended. Transcript forms are available in the Office of Financial Aid. Incoming applicants must request each institution to send a transcript to The American University, Office of Financial Aid. Federal funds may not be disbursed to students until such transcripts are received.

(4) File a Selective Service Registration Compliance Form and Certification of Nondefault Loan Status with the Office of Financial Aid.

Financial Need

The student's financial need is defined as the difference between the cost of attendance and a reasonable expectation of assistance from the family.

All financial aid is based on the assumption that students and their parents will contribute a reasonable amount to meet educational expenses. Students and parents are encouraged to inform the Office of Financial Aid should major changes in their financial situations occur.

Estimated Cost of Attendance

Undergraduates:

Tuition	\$11,336
Student Fee	200
Books and Supplies	450
Room and Board	5,228*
Personal and Travel Expenses	1,300
Total	18,514

Graduates:

Tuition	\$7,182 (9 credit hours per semester)
Student Fee	130
Books and Supplies	450
Room and Board	6,562*
Personal and Travel Expenses	1,600
Total	15,924

*For students living at home or off-campus, not with parents, adjustments to these room and board averages will be necessary.

Notification

The Office of Financial Aid carefully reviews the student's financial situation. If the student is eligible for assistance and monies are available, an offer of award is made. Very often the award is a "package" of assistance in the form of grants, loans, and work.

The Office of Financial Aid notifies applicants who meet the priority deadline as soon as possible after receipt of all application material. New students should note that they must be admitted to a degree program before any action will be taken on their financial aid applications.

Notification Dates:

Early Decision Freshmen	January 1
Regular Decision Freshmen	March 30
Transfer	April 30
Continuing Undergraduates	mid-June
New Graduate and Law	May 1
Continuing Graduate and Law	mid-June

Satisfactory Academic Progress

All aid recipients in all programs must maintain satisfactory academic progress toward their degrees in order to remain eligible for consideration. This progress is defined both qualitatively and quantitatively. At the least, undergraduates are expected to complete twenty-four credit hours each year with a cumulative grade-point average of 2.00; graduate students must complete eighteen credit hours with a grade-point average of 3.00. Certain aid programs carry additional restrictions to which the Office of Financial Aid must adhere. For more specific information, students should consult the Office of Financial Aid.

Refund Policy

Refunds of student aid to an eligible student are made through the university's Office of Student Accounts. Students with a credit balance must apply for a refund by completing the form "Student Refund Request" available in the Office of Student Accounts. Eligibility for a refund depends on the student recipient's enrollment status, cost of education and date of attendance. Changes in any of these factors, such as dropping courses or withdrawal from the university, could result in the reduction of the student's aid package, thereby removing a potential credit

balance. A student who withdraws from the university will receive only what balance remains, if any, after costs are calculated and aid is restored to the aid accounts, including the possible return of Stafford Loan funds to the lender. Also, a student who receives a refund based wholly or partly on financial aid and later changes enrollment status may be required to return all or part of the refund to the university.

Financial Aid Transcripts

Students may obtain transcripts of their financial aid records from the Office of Financial Aid. There is no charge.

Federal Programs

To receive financial aid through a federal program, a student must be a United States citizen or have a permanent resident visa.

The College Work-Study Program (CWS): This program provides the opportunity to work part time on campus. Students must demonstrate financial need and be enrolled at least half time.

Cooperative Education Program: This program integrates work experience with academic study. Students may earn academic credit for faculty-supervised employment in full- or part-time work assignments related to their educational and career interests. Students pay tuition for course credit earned in supervised cooperative education field experience. Salaries vary with each assignment and assist students in meeting the costs of their education.

The program is open, as placements are available, to degree-seeking students enrolled in the College of Arts and Sciences, the School of International Service, and the School of Public Affairs, and the Kogod College of Business Administration. The Office of Cooperative Education and the Office of Financial Aid have further details and information on application procedures and eligibility.

Federal Loans

The Carl D. Perkins Loan Program: This program provides low-interest (5%) loans for degree-seeking students who demonstrate financial need.

A student may borrow up to a total of (a) \$4,500 if the student has completed less than two years of a program leading to a bachelor's degree; (b) \$9,000 for undergraduate study after completing two years of study toward a bachelor's degree (this total includes any amount borrowed under the Perkins Loan Program for the first two years of study); (c) \$18,000 for graduate study (this total includes any amount borrowed under the Perkins Loan Program for undergraduate study).

Repayment begins six to nine months after graduation or the end of enrollment on at least a half-time basis. The loan must be repaid within ten years. During the repayment period, 5% interest on the unpaid balance of the principal will be charged. Provisions for deferring or canceling payment are available in some situations. Students should consult the Office of Financial Aid for further information.

Stafford Loan Program: A Stafford Loan is a low-interest loan, insured by either the federal government or a state guaranty agency, available to students from banks, credit unions, or savings and loan institutions. An undergraduate student may borrow (a) \$2,625 each academic year if the student has completed less than two years of a program leading to a bachelor's degree; (b) \$4,000 each academic year for undergraduate study after completing two years of study toward a bachelor's degree. Graduate students may borrow up to \$7,500 each academic year. The total aggregate allowed for undergraduate and graduate loans combined is \$54,750.

Students who wish to borrow under this program for the 1989-1990 academic year must provide income information from the 1988 tax year by filing a Financial Aid Form (FAF) to demonstrate eligibility for the loan. Tax returns and other material may be required. The demonstrated need of individual borrowers may vary.

Repayment of the loan begins six months after a borrower drops to less than half-time status and may be extended over a five- to ten-year period.

Parent Loan for Undergraduate Students (PLUS) or Supplemental Loans for Students (SLS): The PLUS/SLS program was designed to provide parents and students with additional funds to assist them in meeting educational expenses. These loans, which are not based on need, are available from banks, credit unions, and savings and loan institutions.

Parents of dependent undergraduate, graduate, and law students may borrow up to \$4,000 per year up to an aggregate total of \$20,000. Independent undergraduates may borrow up to \$4,000 per year.

The interest rate on the PLUS/SLS program is variable and is currently at 10.27%. The maximum interest rate is 12%. Repayment for parents begins within sixty days of the loan's disbursement on the principal and interest and may be extended over a five- to ten-year period. Graduate students may defer their principal payments while enrolled full-time but must make monthly interest payments. Some lenders are now allowing graduate students to defer both principal and interest payments until after they graduate.

Federal Grants

Pell Grant Program: This program provides grant aid to eligible students enrolled at least half-time in degree programs.

Students may apply by completing the appropriate section on the College Scholarship Service Financial Aid Form (FAF) or by completing the Application for Federal Student Aid, both of which may be obtained from post-secondary education institutions, high schools, or The American University, Office of Financial Aid.

Applicants will receive a Student Aid Report (SAR) from the Department of Education and must submit all SARs and other required documents to the university. The amount of a Pell Grant award will be based on the Department of Education's determination of eligibility.

Supplemental Educational Opportunity Grants (SEOG): Federal funds are available through the university to undergraduate students with exceptional financial need.

State Scholarship and Grant Programs

Many states administer grant and scholarship programs which residents may apply for and receive while attending The American University. The District of Columbia in some cases has a reciprocal agreement with these state programs. The programs are commonly called "portable grant and scholarship programs."

Students should check with local guidance counselors and state grant agencies regarding up-to-date application procedures and eligibility factors.

American University Programs

Restricted University Loans

Loans are available to needy students at The American University on a short-term basis. Funds are provided either by private endowments to the university or by the university itself. The qualifications for each of these programs vary according to the stipulations that the donors have made for the individual accounts. Funds are extremely limited and are considered a resource of last resort.

Alumni Association Loan Fund: The American University Alumni Association has established a loan fund for American University alumni who are pursuing part-time graduate study. The loan must be repaid with 2% interest.

Frank W. Ballou and Adeline J. Ballou Memorial Loan Fund: This loan fund was established in 1985 by Mrs. Adeline J. Ballou of Washington, D.C. Its purpose is to assist needy and deserving students from the District of Columbia who are enrolled full-time in a degree program. Loan amounts vary.

Morris and Gwendolyn Cafritz Foundation for Middle Income Students Loan Fund: This revolving loan fund was established by a grant from the Cafritz Foundation of Washington, D.C. for middle income students who, without this assistance, would not otherwise be able to continue their education. Interest accrues at the rate of 7% per annum.

Class of 1932 and Class of 1961 Loan Fund: These funds are lent to worthy and needy full-time undergraduate students. Interest accrues at 4% per annum.

Sinclair B. Dell Loan Fund: A memorial loan fund was established to honor Dr. Sinclair Dell, a Washington podiatrist who died of cancer in 1975. Repayment must be made within one year of the award at 2% interest.

Aretta Skinner Rudd Loan Fund: Made possible by a bequest from Aretta Skinner Rudd's estate in 1986, this fund provides financial assistance to needy full-time undergraduate students.

General University Loan Fund: This loan is designed for both graduate and undergraduate students with no outstanding debts to the university. The interest is 4% per annum.

Rose Mae Howard Memorial Loan Fund: This fund was established in 1975 by the Rose Mae Howard estate to assist students who are in need of financial aid to complete their education. This loan is awarded to full-time juniors and seniors and bears a 9% interest rate upon repayment.

The Interfraternity Council Orphan Fund: This loan fund was provided by The American University Interfraternity Council beginning in 1961. Recipients must be male orphans under twenty-one years of age. There is no interest charge on repayment.

Willett M. Kempton Loan Fund: These loans are awarded to full-time graduate or undergraduate students in the School of Communication. The interest rate is 4% per annum.

Kogod College of Business Administration Student Loan Fund: The loan fund was established to help part-time or full-time undergraduate and graduate students who are enrolled and are in good standing in the Kogod College of Business Administration. Terms of the loan include a 5% rate of interest which will accrue on receipt of the loan. Repayment begins six months after graduation. This loan can be applied for in the Office of Financial Aid.

Ida Letts Educational Loan Fund: This fund helps young men whose financial condition makes support necessary while enrolled as full-time undergraduates. The loan cannot be granted to students during their first semester. The interest rate is 2% per annum while the recipient is enrolled full-time and 4% per annum after enrollment at The American University ceases.

Long Loan Fund: This loan was designed for the daughters of United Methodist ministers in the College of Arts and Sciences. The interest rate is 4% per annum.

Anna Mary Mann Memorial Loan Fund: These funds are restricted to women in the Kogod College of Business Administration and the School of International Service. The interest rate is 4% per annum.

William Hill McKenzie Loan Fund: This fund was established in September 1968 in memory of William Hill McKenzie IV, who died in March 1968 and was awarded a Bachelor of Arts degree posthumously in June 1968. It provides emergency assistance to full-time, married seniors at The American University. Four percent interest accrues from the date the loan is made.

Maurice Minnick Loan Fund: These funds are designed to help married seniors meet educational costs. Loans are to be repaid after graduation without interest.

Shirley E. Minus Loan Fund: This fund is designed to aid undergraduate students in good standing at the university. The fund is especially suited to students who may not qualify for other financial aid. Three percent annual interest will accrue on the unpaid balance beginning nine months after graduation or separation from The American University.

Thomas Moore Emergency Loan Fund: This fund was established in January 1970 by Theodore and Lillian Moore as a memorial to their son Thomas, an American University sociology student killed in an automobile accident in 1969. Students may borrow up to \$50.00 to meet financial emergencies.

Morris Morgenstern Loan Fund: This loan was established in 1972 by the Morris Morgenstern Foundation of Long Island, New York. It is issued for no longer than one

year to students in need of emergency assistance. The interest rate after the due date is 4% per annum.

Julia Olson Loan Fund: All students in need of temporary emergency assistance qualify for this loan provided they are in good academic standing. This loan is interest free.

Stanley Posner Student Emergency Loan Fund: A short-term, no-interest loan fund to assist students in emergency situations. Loans are to be repaid in thirty days and will usually not exceed \$50.00. Borrowers may be graduate or undergraduate students who are enrolled in full-time degree programs. A penalty of \$1.00 is charged for every full month beyond the repayment date of the loan.

Real Estate Alumni Loan Fund: Established to assist needy students enrolled as real estate or finance majors or both in the Kogod College of Business Administration. First preference is given to real estate majors and to junior, senior, and graduate students. Loan amounts vary but may not exceed \$2,500 each academic year. Current interest is at 9%. Recipients are selected by a loan committee.

Roland Rice Loan Fund: Borrowers of this loan must be students who are not qualified to receive aid from other student aid sources available at the university. Interest accrues at 4% per annum. The loan must be repaid within two years after graduation.

Residence Hall Association Emergency Loan Fund: Established in 1965 by the Women Residents Association to assist women living in the residence halls. The fund was altered in 1976 to include men residing in campus housing. This is a short-term loan with a maximum award of \$50.00.

Bertha Roberts Loan Fund: Made possible by a bequest from the Bertha Roberts estate in 1973, the fund provides interest-free loans to young men and women preparing for Christian ministry or missionary work, or other religious positions. Interest accrues at 5% on the unpaid balance if a default occurs; otherwise the loan is interest-free.

William M. and Rebecca Sachs Loan Fund: This emergency loan fund was created by the Sachs family in 1962 for needy full- or part-time undergraduates or graduates who have completed at least one semester in the Kogod College of Business Administration. The interest rate is 5% per annum.

Shaskan Family Loan Fund: The George and Myra Shaskan Foundation made this loan available to full-time undergraduate, graduate, or law students who demonstrate financial need. Recipients must be in their final year of study to receive this loan.

Student Confederation Loan Fund: This loan fund was established in 1975 to aid full-time undergraduates other than freshmen. The interest rate is 3%.

United States Steel Foundation Loan Fund: This fund aids full-time graduate students enrolled in the Kogod College of Business Administration. Students must be recommended by the dean. Interest accrues at 3% per annum.

Washington College of Law Dean's Loan Fund: This fund aids law students and is administered by the Washington College of Law. Interest accrues at 4% per annum. Students must apply directly to the Washington College of Law.

Washington College of Law Alumni Loan Fund: This loan is funded by alumni contributions and is usually available in the amount of \$1,000 at 7% per annum. Loan repayments begin six months after graduation. This loan

is limited to seniors and other students who are in serious financial need.

Weinberg Student Loan Fund: Mr. and Mrs. J. A. Weinberg, Jr. established this loan fund in 1968 to assist students in the business school who have successfully completed one full year of study. Interest accrues at 4% beginning when the loan is made.

Grants

Athletic Grants: The Department of Athletics makes partial- to full-tuition grants based on athletic promise and ability. Students interested in being considered for these renewable grants should call or write the coach of the sport in which they excel.

Residence Hall Advisers: Students selected to serve as hall advisers receive partial tuition remission, a single room, and a monthly stipend for nine months. Interested students should call or write the Office of Residential Life in late fall to begin the application process. Selection is made in the spring for placement the following academic year. Available only to juniors, seniors, and graduate students.

United Methodist Grant: Full-time undergraduate degree students who are the dependent children of ordained United Methodist ministers appointed by a bishop to full-time, active service in the church may apply to have one-half of their tuition remitted. There will be no remission of tuition for ordained United Methodist ministers' children who are attending the university part-time or who attend during the summer sessions. Inquiries about this grant program should be directed to the Center for Campus Ministries in the Abraham S. Kay Spiritual Life Center.

Other Denominations Grant: Full-time undergraduate students who are the dependent children of other ordained ministers or rabbis may apply to receive tuition remission of \$200 per year, \$100 each for the fall and spring semesters. In order to claim these benefits the minister or rabbi must be active on a full-time basis in the ministry of his or her denomination.

Clergy Grant: Full-time, active clergy may apply to the Center for Campus Ministries to receive a discount of 20% of the cost of their first three-hour course at the university.

University Grant Program: Full-time undergraduate degree students who demonstrate a need for assistance may apply. Amount is based on need. The maximum annual grant is one-half tuition. Requires filing of the 1989-1990 Financial Aid Form. Awards made as long as funds are available.

Tuition Exchange

The American University is one of more than 160 colleges and universities that participate in the Tuition Exchange Program for faculty and staff members. Students whose parents are employed by one of the participating institutions may be eligible for a Tuition Exchange Scholarship. Further information may be obtained from the Tuition Exchange Officer of the participating college or by writing the Office of Staff Personnel Services at The American University.

Tuition Remission for Faculty and Staff Members:

Full-time faculty and staff members may register without payment of tuition for up to six credit hours during any season of the academic year for a total of six free courses each year. A nonrefundable processing fee of \$50.00 for each student is assessed each term.

University Scholarships

The American University Undergraduate Honor Scholarship Program:

Freshmen with outstanding academic credentials are selected for Honor Scholarships of varying amounts. Selection is based solely on merit, although additional aid based on financial need may be offered. Students who meet the established criteria are notified shortly after admission. These awards are renewable for a total of eight semesters provided the student makes satisfactory progress toward the degree (measured both through the cumulative grade-point average and the completion of fifteen credit hours each semester, thirty credit hours each academic year).

Undergraduate Institutional Scholarships

General University Scholarship: New and continuing undergraduates with financial need may be considered for varying amounts of tuition remission when they maintain the required minimum cumulative grade-point average and enroll on a full-time basis. This scholarship may be renewed for a total of eight semesters.

Frederick Douglass Scholarship: This university scholarship is granted to full-time undergraduates. Preference is given first to minority students who have graduated from a high school in the District of Columbia metropolitan area and then to minority students from other areas of the country. Academic achievement and financial need must be demonstrated. The awards range from partial to full tuition. (Each year a limited number of awards exclusive of financial need are made to outstanding applicants.) Incoming students must complete an application for admission to a degree program at the university and complete the Frederick Douglass Scholarship Application by February 1, 1989. A completed 1989-1990 Financial Aid Form must also be received. For more detailed information students may call or write the director of the Frederick Douglass Program at (202) 885-6062.

The American University Merit Scholarships: The American University sponsors a number of merit scholarships under the National Merit Scholarship Corporation's Merit Scholarship Program. National Merit finalists who indicate to the National Merit Scholarship Corporation that The American University is their first choice university are offered the scholarship. The awards are renewable and amounts vary. Semifinalists in the National Achievement Program for Outstanding Negro Students and in the National Hispanic Scholarship Program are also considered for a number of merit awards based on individual academic achievement.

Other Scholarships

Unless specifically noted, the scholarships listed offer varying amounts to be credited toward the recipient's tuition accounts. Not all scholarships listed are awarded every year.

A minimum cumulative grade-point average of 3.00 on a 4.00 scale is required. Many scholarships are awarded on the basis of demonstrated need. All restricted scholarships are administered by the Office of Financial Aid unless otherwise noted.

Leon M. Abbott Scholarships: Tuition scholarships are available to School of International Service students from funds provided by the Scottish Rite Bodies of Freemasonry for the Northern Jurisdiction, U.S.A.

Ernest M. Aiken Scholarship: The Aiken Scholarship was established in 1961 by Mr. Herminia Aiken to assist international students. Candidates should write to the director of International-Intercultural Student Services for consideration.

Walter and Sarah Alexander Scholarship: This scholarship was established in 1927 by the children of Walter and Sarah Alexander. Recipients must be residents of Wisconsin.

Alumni Scholarship: This scholarship was established in 1971 by private donors to aid incoming freshmen with high academic achievement. Recipients may be nominated by American University alumni. Selection is made by representatives of the Alumni Association, the Alumni Office, and the Office of Financial Aid.

Hurst R. and Marian P. Anderson Scholarship Fund: This scholarship was funded in 1967 by the Andersons to aid needy students from the Washington, D.C., area.

Baer Memorial Scholarship: This fund was established in 1937 by Emma Baer to aid needy students from Pennsylvania.

Bausel Memorial Scholarship: This fund was established in 1962 through a grant from the estate of Helen Bausel for students who demonstrate academic excellence.

John and Mabel Becker Scholarship: This scholarship is awarded to a male student with an excellent academic record.

Dorothy and Jack Bender Scholarship: This scholarship was endowed in 1976 by Morton Bender, in memory of his parents. The award is available to a full-time freshman who shows financial need and academic achievement.

Lucius and Grace Bennett Scholarship: This scholarship was established in 1944 by the estate of Grace Bennett to assist a male student from Logan County, Ohio.

Leo M. Bernstein and David I. Estrin Scholarship: This fund was established by Wilma and Stuart Bernstein in honor of their fathers. Students in the Kogod College of Business Administration are eligible.

Borden Parker Boune Scholarship: This fund was provided by the estate of Ida C. Morrison for students in the philosophy department.

Joseph A. Britton Scholarship: The Britton Scholarship was established in 1982 by the family of Joseph Britton, who graduated in 1938 from the College of Arts and Sciences at The American University. The recipient of this

award must exhibit excellence in academics as well as athletics.

L.E. and L.J. Brown Scholarship: Funded in 1947 by the estate of Lucy J. Brown to help students preparing for the ministry.

Abbey Joel Butler Scholarship: This scholarship is made available by Abbey Butler, owner of C.B. Equities. Awards are made annually to a Kogod College of Business Administration freshman who demonstrates outstanding academic merit and financial need. Priority is given to students from the New York City metropolitan area.

C&P Telephone Scholarship: The C&P scholarship was established as an annual gift fund in 1978 to assist a high school graduate and resident of the District of Columbia who is enrolled full-time and has financial need.

Laura Belle Campbell Scholarship: This award was funded in 1955 by the estate of Laura Belle Campbell to aid students preparing for the ministry.

Central High School Alumni Scholarship: This scholarship was funded by Kelly Press, Inc. in 1984 to aid deserving undergraduate students.

James Edward Miller Chapman Scholarship: This \$1,000 scholarship is available annually to an undergraduate or graduate student who is a resident of the District of Columbia and who is majoring in business or economics. This scholarship was established by the Chapman Education Foundation in 1984.

Benson T. Chertok Scholarship: This fund is awarded to an outstanding American University science student in honor of Benson T. Chertok for his work in nuclear physics.

George C. and Louise E. Clark Scholarship: George C. Clark established this scholarship in 1959 for outstanding students with financial need.

The Cochran Memorial Fund: This fund was established in 1956 by the estate of Mary E. Cochran to aid students preparing for the ministry.

Wade Cooper Scholarship: The estate of Wade Cooper provides funds to award to qualified students with financial need.

Cora and John H. Davis Foundation Scholarship: The Davis Foundation provides several scholarships annually to assist needy students. These scholarships were established in 1983.

Joseph Dawson Scholarship: Funded in 1955 by the estate of Margaret Y. Dawson, this scholarship assists children of ministers of the Baltimore Conference of the Methodist Church.

Charles H. and Iva N. Dean Scholarship: Started in 1947 by the estate of Iva N. Dean, this scholarship is designated to assist preministerial students.

Rev. Charles and Dora DeLong Scholarship: This award was established in honor of Rev. and Mrs. DeLong by Mr. and Mrs. J. Dennett Guthrie to aid qualified students enrolled in the School of International Service.

Nancy Devor Scholarship: This scholarship, awarded to School of Government and Public Administration students, is funded by a 1910 endowment from the estate of Nancy Barnes Devor.

Mary M. Dunham Scholarship: Awards are presented to qualified students from any college or school of the university. This scholarship was established in 1912 from the estate of Mary Dunham to aid needy students.

Michael and Bonnie Forman Scholarship: This scholarship was established in 1984 to aid undergraduate students majoring in Communication, Visual Media, Literature, or Cinema Studies.

Goldman Scholarship Fund: This fund was established in 1968 by the Aaron and Cecile Goldman Foundation to award deserving and needy students from the Washington metropolitan area. Interested students should contact the Kogod College of Business Administration.

Everett and Marian Gordon Scholarships: This scholarship fund established in 1976 by Everett and Marian Gordon to assist Jewish Studies majors in the completion of their senior theses. Selection is made by the Jewish Studies Program.

Arabella Griffin Scholarship: This endowed fund was established in 1920 by the Rev. and Mrs. Charles Griffin for outstanding students from any college or school in the university.

Ernest S. Griffith Scholarship: This scholarship was established in 1965 to aid students enrolled in the School of International Service.

Guttman Foundation Scholarship: Established by the Stella and Charles Guttman Foundation, this fund aids students with proven academic excellence.

Annie G. Hall Scholarship: Awarded to students preparing for the ministry, this scholarship is financed through a fund established in 1942 by Annie G. Hall.

The C.E. Hammond Scholarship Fund: Established in 1927 by the estate of C.E. Hammond, this fund assists students preparing for the ministry.

Bryce Harlow Scholarships: The Bryce Harlow Foundation established these scholarships in 1985 to aid needy, part-time, graduate-level students on congressional- or executive-branch staffs or others studying business-government relations. Selections are made by the Bryce Harlow Scholarship Foundation Committee.

Milton Harris Scholarships: The Office of Financial Aid in cooperation with the Department of Chemistry selects a varying number of deserving undergraduate students annually to receive the Milton Harris Scholarship.

The E. Haskell Scholarship: The estate of E. Haskell provides funds to aid preministerial students.

William Randolph Hearst Minority Scholarship: The Hearst Foundation established an endowment fund in 1986 to support a scholarship program with preference for minority undergraduates. Recipients are chosen based on academic achievement, motivation, and financial need.

Hechinger Foundation Scholarship: The Hechinger Foundation established in 1983 an endowed scholarship fund, the income of which is awarded on an annual basis. First preference is given to black undergraduate students from the District of Columbia who are majoring in business.

The Helene M. Herzburn Art Scholarship Fund: Dr. Philip Herzburn established an endowed scholarship fund in 1984 in memory of his wife Helene, a former member of the university's art faculty. The scholarship is awarded to undergraduate students with financial need majoring in art. Selections are made by the Art Department in cooperation with the Office of Financial Aid.

Ludwig Maximilian Homberger Scholarship: This scholarship was funded in 1982 by the estate of Elizabeth B. Homberger in memory of her husband, a former Amer-

ican University professor. It was established to assist needy German exchange students pursuing study at The American University.

Bruce Hughes Scholarship: This scholarship is awarded to outstanding students through a 1917 gift from the estate of the Rev. Bruce Hughes.

Hyman Scholarship: Established in 1956 by the estate of Emma Hyman, this scholarship aids students preparing for the ministry.

Catherine Letts Jones Scholarship: Established in 1964 by Mrs. Jones, this scholarship assists women who are native-born Americans.

Jack Jurey Memorial Scholarship: This fund was begun in 1970 by Mrs. Jack Jurey. The recipient must be a junior, senior, or graduate student pursuing a career in broadcast journalism. Selections are made through the School of Communication.

Robert F. Kennedy Memorial Scholarship: The fund was established in April of 1969 to provide scholarships to international students.

Adnan Khashoggi Scholarship: The Adnan Khashoggi Scholarship was established in 1983 by Adnan M. Khashoggi. A full-tuition scholarship is awarded annually to an outstanding undergraduate who demonstrates substantial financial need.

Hugh and Maggie Legge Scholarship: Funded by Hugh Legge in 1937, this scholarship aids students from Kent Island in Queen Anne's County, Maryland.

Catherine Letts Scholarship: Provides funds for legal resident of Iowa.

Minnie Letts Scholarship: Provides funds for an outstanding resident of Kansas.

Mary and Daniel Loughran Scholarship: This scholarship is awarded to four students from each class who have demonstrated academic excellence, leadership, and service to the university community. The fund was established in 1976 by a grant from the Mary and Daniel Loughran Foundation.

John H. and Nannie C. Lucas Scholarship: Established in 1928 by Nannie Lucas, this scholarship aids residents of Missouri.

Frank J. Luchs Memorial Scholarship: This scholarship is awarded by the Kogod College of Business Administration to students pursuing a career in real estate or business administration.

The Madison National Bank Scholarship: This annual gift scholarship fund was set up in 1982 to aid a student in the Kogod College of Business Administration studying commercial banking.

Samuel J. Moritz Scholarship: Established in 1961 by the estate of Samuel Moritz, this fund assists students in the School of International Service.

Charlotte W. Newcombe Foundation Scholarship: The Charlotte W. Newcombe Foundation made its first annual gift to The American University in 1981 to fund scholarships for mature second-career women students attending full- or part-time. Students should have completed half the credits necessary for their bachelor's degree before applying for the fund.

Charles A. Norwood Memorial Scholarship: Aids students who are legal residents of Maryland.

George Olmstead Foundation: This fund was started in 1965 to assist Army officers in the School of International Service.

Opdyke Memorial Scholarship: The Opdyke Memorial Scholarship was established in 1931 through the estate of Dorothy Opdyke. Awards are made to women preparing for foreign missionary service.

Miriam Ottenberg Memorial Scholarship Fund: The generosity of various donors to a fund in memory of Miriam Ottenberg, a former reporter for *The Washington Star*, has made this fund available to needy students. Preference is given to those majoring in Print Journalism.

Willis L. Overdeer Scholarship: Established by the estate of Willis L. Overdeer, this scholarship provides assistance to students from Delaware preparing for the United Methodist ministry.

Carrie Oves Scholarship: Awards are presented to students with financial need from any college or school of the university.

Charles Coolidge Parlin Scholarship: This scholarship was established in memory of Charles Parlin, a past member of the Board of Trustees at The American University, through a gift by the Celanese Corporation. Students who demonstrate leadership qualities and academic excellence are considered for this scholarship.

George and Thelma Paraskevades Foundation Scholarship Fund: Established in the fall of 1985, this scholarship provides assistance to students from Cyprus pursuing undergraduate studies in the humanities and social sciences. Recipients must be in high academic standing and show financial need.

Albert Pike Scholarship: This scholarship is funded by the Scottish Rite of the Southern Jurisdiction and is awarded to students enrolled in the School of International Service who plan to serve in a government position after graduation.

Pittman Potter Award: Awarded to students in the School of International Service.

Mary A. Pugh Scholarship: Annual scholarship for students enrolled in a degree program under the Center for South and Southeast Asian Studies, School of International Service.

Marion F. Purcell Memorial Scholarship: This scholarship was initiated in 1968 by Francis D. Purcell to honor his wife, who was employed at The American University. This annual scholarship is awarded to a student in the School of International Service who demonstrates compassion and understanding to others.

The Ramsey Memorial Scholarship: This scholarship was established in 1941 by the Ramsey estate "for the education of ministers of the gospel of Jesus Christ."

Ethel Ridgeway Scholarship: In 1978, 10% of the estate of Ethel Ridgeway was donated to assist qualified students preparing for the ministry.

Effie Ritchie Scholarship: A scholarship fund from the estate of Effie Ritchie was established to assist qualified students preparing for the ministry.

Jack B. Sacks Scholarship: Awarded to a deserving student for academic achievement in the field of advertising or marketing or both.

Karim Said Foundation Scholarship: The Karim Said Foundation supports an annual scholarship for two graduate students from the Arab world majoring in Computer

Science or Technology of Management who intend to return to their countries. The award may be used for tuition, room and board, and travel.

Savage-Trowbridge Scholarship: This scholarship is available to undergraduate students with outstanding academic qualifications enrolled in the School of International Service.

Colonel William E. Schooley Scholarship: Tuition scholarships are awarded to School of International Service students from funds provided by the Scottish Rites in the Valley of Washington for the Southern Jurisdiction, U.S.A.

Ann Sharp Scholarship: This scholarship is awarded to students who plan to go into Christian educational work.

Mary Smith Scholarship: This scholarship was made available by gift from her husband, Clark, to honor her years of service in the Office of Financial Aid at The American University.

Minnie Smith Scholarship: Presented to qualified students from any college or school of the university.

Solon E. Summerfield Scholarship: In 1982, the Summerfield Foundation established an endowed scholarship fund to aid deserving undergraduate students.

Joel and Leona Tall Scholarship: In honor of their fiftieth wedding anniversary, a scholarship was initiated in the name of Joel and Leona Tall, residents of the District of Columbia. The scholarship is intended to help young writers in the areas of literature and journalism.

Theological Seminary Scholarship: Intended for full-time undergraduates who wish to pursue theological studies at the Wesley Theological Seminary after graduation from The American University.

George W. Townsend Scholarship: Established in 1928 by George Townsend, this scholarship is presented to qualified students preparing for the ministry.

The Warner Wolf Scholarship: This scholarship was established in 1986 by Warner Wolf, sports commentator. The scholarship will be awarded to an incoming freshman from the New York City area majoring in communications who is academically outstanding and in need of financial aid.

Marjorie Fraser Webster Memorial Scholarship: This scholarship established in 1977 to memorialize the founder and president of Marjorie Webster Junior College, Marjorie F. Webster. The college had a close relationship with The American University while in existence. The scholarship is designed to assist junior or senior women who have financial need and meet the university's academic requirements.

Donald Weiss Family Scholarship: This scholarship was established by the Donald Weiss family in honor of their son, Peter, to be awarded to a disabled student.

Women's Guild of The American University Scholarship: The Women's Guild of The American University provides a scholarship to a senior female student in the College of Arts and Sciences. The student must have attended The American University all four years and must show excellence in academics.

George Woods Scholarship: This scholarship is funded by a gift from Margaret P. Woods and awards are made to qualified students from any college or school of the university.

Graduate Financial Aid

Merit-Based Awards

Teaching-Unit and Administrative/Service-Unit Awards

These awards include fellowships and assistantships. Fellowships provide a stipend and up to twenty-four hours of tuition remission. There is a service commitment of twenty hours each week. Assistantships provide up to twenty-four hours of tuition remission during the academic year and require a service commitment of ten hours each week. Summer fellowships are available.

Teaching-unit awards usually involve assisting members of the faculty in their research or teaching. The awards are made by the teaching units according to their own criteria.

Dean's Scholar Awards provide a \$3,000 scholarship and a full teaching-unit fellowship to outstanding newly admitted doctoral students interested in pursuing a teaching career.

Administrative/Service-Unit Awards involve work in a variety of university offices and programs, including Student Life, the Computing Center, and the Washington Semester Program. Potential recipients are nominated by the teaching units and final selections are made by the heads of the administrative and service units.

Graduate Honor Awards

Academic merit and achievement are the principal criteria for selection. Nominations for these awards are made by the teaching units. Recipients of these awards are selected by the University Graduate Honors Awards Committee.

Scholar's Awards: The John Fletcher Hurst Fellowships consist of a \$2,000 award in addition to a University Fellowship that includes a stipend and tuition remission. This renewable award is available only to students entering doctoral programs.

The Master's Fellowships offer a \$1,000 award in addition to a University Fellowship which includes a stipend and tuition remission. This renewable award is available to students entering master's-degree programs.

Special Opportunity Awards are fellowships and assistantships awarded to American-born minority students (black American, Hispanic American, American Indian, Asian or Pacific Islander American). Recipients meet service requirements in their teaching units.

Hall of Nations Scholarships provide up to eighteen hours of tuition remission during the academic year. International students who do not have permanent resident status or U.S. citizenship are eligible to apply. There is no service requirement. The award is renewable for a second year if the recipient maintains a superior academic record.

Landmarks Graduate Fellowship in History is available to either M.A. or Ph.D. students in History with a special interest in public or museum history. Students serve half time as an assistant to a Landmarks Assistant Professor of History and half time as a research/exhibit assistant at the National Museum of American History (Smithsonian

Institution). The stipend is \$7800 and eighteen to twenty-four hours of tuition remission is available. This fellowship includes some summer obligations.

Designated Foundation Awards: The Massey Foundation Awards are available only to Canadian citizens. They provide scholarship assistance of up to \$3,000 each year without a service requirement.

United Methodist Graduate Scholarships are available to members of the United Methodist Church who have strong academic records. The award provides up to 12 credit hours of remitted tuition. There is no service requirement.

Need-Based Assistance

Some of the major sources of need-based loans are the Carl D. Perkins Loans, the Stafford Loan Program, and the Supplemental Loan to Students (SLS). These are described under "Federal Loans" in this chapter. Also available is the District of Columbia Consortium Supplemental Educational Resources Needs Program (CONSERN). See also "Restricted Loans," "Grants," and "Other Scholarships."

Other Sources of Financial Support

Resident Hall Advisers carry out advising and administrative duties in the university residence halls in exchange for single rooms in the residence hall, a stipend each year, and fourteen hours tuition remission a year. See also "Grants."

The College Work-Study Program provides opportunities to work part-time on campus. See also "Federal Programs".

Students in the Cooperative Education Program are paid regularly and receive academic credit for faculty-supervised employment. See also "Federal Programs".

Regular part-time employment is available both on and off campus. See also "Employment Opportunities".

Washington College of Law Scholarships and Grants

Special law-school scholarships, established by friends of the law school and the university, provide tuition assistance for full-time students. For more information, call (202) 885-2668.

Employment Opportunities

The university Career Center provides assistance to students interested in obtaining employment to defray a portion of their college expenses.

On-Campus Part-Time and Temporary Employment: There are on-campus jobs available at the university. Students who have been awarded federal financial aid must obtain the approval of the Office of Financial Aid before beginning work.

Off-Campus Part-Time and Temporary Employment: A variety of part-time and temporary positions are available in the nearby area and in downtown Washington. Hourly wages start at \$3.35 but go up to \$7.00 for specialized work.

Veterans' Benefits

The American University's degree programs are approved by the Educational Institution Licensure Commission, the state approving agency for the District of Columbia for enrollment of veterans (and eligible dependents of deceased or disabled veterans) for educational benefits under the various federal laws relating to veterans.

Forms and information may be requested from the Office of the Registrar at (202) 885-2235.

New Students

New students entering The American University must file a Veterans Application for VA Educational Benefits (22-1990) with a certified copy of DD-214 through the Office of the Registrar. Enrollment certification is then sent to the Veterans Administration by the Office of the Registrar to initiate benefits for the enrollment period.

Service men and women wishing to receive VA benefits for the first time must present the Serviceman's Application for VA Educational Benefits (22-1990). This form must be signed by the Education Office and the Commanding Officer.

Transfer students who have received VA educational benefits at another college or place of training and wish to receive VA benefits for the first time at The American University should file a Request for Change of Program or Place of Training (21-1995) through the Office of the Registrar. This form will then be sent to the VA's regional office in Washington, D.C. with the Enrollment Certification (22-1999) completed by the university.

Continuing Students

Continuing students need only file The American University VA claim card for educational benefits each semester with the Office of the Registrar. All changes in registration (adds, drops, and withdrawals) must be reported to the Office of the Registrar, Veterans' Counselor.

Payment and Financial Responsibility

With the exception of disabled veterans who are training under Vocational Rehabilitation, all beneficiaries of educational benefits from the VA are personally responsible for the payment of their bills to the university. These persons should come to the university financially prepared to pay tuition and fees. The VA checks for educational benefits are sent directly to the student or address designated on The American University claim card. Students who wish to receive advance payment must file an advance payment request form. Students who request and are granted advance payment pick up only the first check issued through the Office of the Registrar, Veterans' Counselor. Thereafter, the checks are sent directly to the student or address on file with the VA. It takes six to eight weeks from the time

of filing a veterans semester claim card with the Office of the Registrar before the first check arrives. Veterans whose claim cards are completely filled in will have their claims processed first. Incomplete claim cards (e.g., no file/claim number) will be processed last.

The Veterans Administration interprets "completion of credits" differently from the university, and this difference should be noted. VA benefits are awarded on the basis of the expected completion of a certain number of credits each semester as stated on the Veteran's Certification Form. Completion is defined to mean grades of A, B, C, D, F, P, or ZF. However, veterans who drop below the anticipated level by receiving a W, L, or N will be in overpayment status, according to the Veterans Administration. Future benefits will be reduced for later periods of enrollment or, should no further enrollment occur, students would have to refund money directly to the Veterans Administration. The VA directs the university to notify them of a change in status for students during or immediately after the end of

the month in which the change occurs. Thus, when the Office of the Registrar learns in the third or fourth week of May that a veteran has reduced his or her credit hours of enrollment because of withdrawals, audits, or no grade reported, it notifies the VA immediately after the end of May (in early June). Under mitigating circumstances exceptions to the above policies may be made through the Veterans Administration Regional Office.

The Office of the Registrar is located on the second floor of the Asbury Building, and is open from 9:00 a.m. to 5:00 p.m., Monday through Friday.

While every attempt has been made to provide accurate and completed information, changes in federal regulations and university policy may occur at any time without notice, and students should use this material as a general guide.





Student Life and Services

Division of Student Life

Serving students' needs in support of their academic endeavors, the Division of Student Life offers a variety of programs from psychological, learning, and health services to student government and international programs.

In one way or another every American University student is served by the activities sponsored by the division. Departments and services include: Campus Ministries, Child Development Center, Commuter Affairs and Off-Campus Housing, Greek Life, Honor Societies, Information Center, International and Intercultural Student Services, Judicial Boards, Minority Affairs, Notary Public, Office of the Vice Provost, Parents Association, Psychological and Learning Services, Residential Life, Special Services for the Physically Disabled, Student Activities and Student Government, Student Health Center, Student Health Insurance Information, and Title IX Officer.

The division is headed by the Vice Provost for Student Life and provides cocurricular benefits to all American University students. The Division of Student Life recognizes that a student's college experience needs to be supported and nurtured by people and events inside and outside the classroom. Thus, it is the mission of its staff members to provide the academic, emotional, cultural, spiritual, and social support to ensure student success.

Offices of the Division of Student Life are housed in the Abbey Joel Butler Pavilion and Mary Graydon Center with different departments spread throughout the campus.

Information Center

Located on the main floor, east end of Mary Graydon Center, the Information Center is a resource center for The American University community. Services include providing information about activities on and off campus, Metro bus and rail and American University shuttle schedules, airline and Amtrak schedules, student services, university department telephone numbers and locations, off-campus housing listings, carpool and long distance ride listings,

campus locker assignments, and consumer service resources. The center is open seven days a week, and its staff provides answers or referrals to appropriate offices for assistance.

Office of Minority Affairs

The Office of Minority Affairs assists all minority students entering the university by providing counseling and tutoring services to encourage academic success. The cultural interests of the minority community are served through a series of lectures, seminars, historical tours, receptions, award ceremonies, and festive events. The Office of Minority Affairs houses the Minority Resource Center which provides scholarship and career information for undergraduate and graduate students. The Frederick Douglass Scholarship Program, and the High School College Internship Program (H/SCIP) are housed within this unit.

The Office of Minority Affairs is located in the Butler Pavilion, room 404.

Office of International-Intercultural Student Services

One of The American University's distinctive educational characteristics is its cosmopolitan and multicultural campus population: more than 11,000 students from 127 countries including students from all fifty of the United States are currently enrolled. This cultural and international diversity of the university community provides students with the unique opportunity to explore political, economic, environmental, and social perspectives with others who, in the near future, will be some of the decision makers for the world's businesses and governments. To take advantage of this unique educational resource, the Office of International-Intercultural Student Services (OIS) sponsors intercultural programs, provides cross-cultural

advising, and monitors university policy, programs, and services to ensure the vitality of The American University's cultural diversity.

OIS seeks to develop awareness, understanding, and appreciation of cultural differences within the university community. Primary support services, which use the resources of the nation's capital and the university's diverse administrative and academic resources, include providing cultural-adjustment orientation and advising about academic, personal, social, cultural, career, and employment matters. OIS provides comprehensive orientation programs each fall and spring semester for foreign students and is developing an orientation support service for those American and foreign students who have lived and studied outside their country of citizenship during their adolescent years.

OIS is also the university's administrative unit authorized by the U.S. Immigration and Naturalization Service to issue and sign the necessary nonimmigrant documentation required of foreign students, foreign scholars, exchange visitors, and foreign temporary workers of distinguished merit and ability.

The Office of International-Intercultural Student Services is located in the Butler Pavilion, room 408.

Student Activities

The Office of Student Activities provides student programs and services designed to enhance the personal, social, and cultural growth of students. Among these are the Center for Student Volunteerism and Community Service, the Off-Campus Housing Office, Commuter Affairs, Special Services for Students with Disabilities, Greek Affairs, the Center for Student Leadership and Organization, and Orientation and Parent Programs.

Members of the staff serve as the primary advisers to the Student Confederation, the Confederation Media Commission, the Graduate Student Council, the Greek governing boards, the Student Union Board, and the Kennedy Political Union. The staff also provides leadership training and skills development throughout the year with a series of workshops, retreats, and seminars. A leadership library is also available.

Additionally, the office initiates, administers, and interprets university policies and procedures affecting student groups including the following: student events in the tavern; recognition of new student organizations; noise and sound standards for activities; facilities use and requests; funding and purchasing for student organizations; and freedom of expression. Notary public service is also available through the office. The Office of Student Activities is located in Mary Graydon Center, room 220, (202) 885-3390.

Center for Student Volunteerism and Community Service

The Center for Student Volunteerism and Community Service oversees a number of special projects designed to encourage students to become involved in volunteer opportunities within the greater Washington, D.C., commu-

nity. Among the center's programs are the Community Service Associates Project and the Volunteer Fair. Also housed within the center is a clearinghouse established to match students with community organizations seeking volunteers. The center's staff is available to advise and refer members of the university community who wish to become involved in service.

The center is located in the Office of Student Activities, Mary Graydon Center, room 220.

Judicial Boards

The Division of Student Life, through the office of the Conduct Council Administrator, provides the university community with two judicial boards, the Hearing Board and the Board of Examiners (appeals level). These two Conduct Council bodies handle all nonacademic grievances resulting from alleged violation of the Rights and Responsibilities, the Code of Conduct, and the Regulations for Student Conduct in the Residence Halls. Sixty percent of the membership of the Conduct Council is made up of students, and 40% is made up of faculty and staff. Service on the Conduct Council provides valuable experience for students interested in justice, political science, science, sociology, and psychology. All students, regardless of their majors, are encouraged to take active roles in the judicial system on campus. The American University Conduct Council is one of the most active judicial boards in the nation and is founded on the values of equity, due process, and education.

Center for Campus Ministries

Kay Spiritual Life Center is an interfaith house of worship and home of the Center for Campus Ministries. The process of education involves growth of the spirit as well as the mind. The building and the ministry facilitate the growth in the spiritual life of persons from many religious backgrounds. Both are physical representations of the university's historic affiliation with the United Methodist Church.

The Center for Campus Ministries is located on the lower level of Kay Center. It is committed to fostering an interfaith understanding and to creating a spiritual climate in which faith and values become an integral part of university life. Regular and special worship and religious observances are held throughout the year by several faith traditions.

In addition, the center sponsors workshops, lectures, retreats, and social action opportunities, as well as a wide range of cultural, educational, and social events.

Along with the Center for Campus Ministries, a number of student organizations are involved in the work of the center. Among them are Baptist Student Fellowship, B'nai B'rith Hillel Foundation and Jewish Student Association, Catholic Law Student Association, Catholic Student Association, Christian Science Organization, Gospel Choir, Jewish Law Student Association, Lutheran Student Movement, Moslem Student Association, Presbyterian Fellowship, Protestant Student Council, Protestant Worship Community, and United Methodist Fellowship.

Protestant, Catholic, Jewish, and Muslim services are scheduled weekly in the center. Mass is celebrated daily during the week; worship is generally contemporary and incorporates issues pertinent to the life of the campus and the world. In addition to the services mentioned, both Christian Science and Hindu worship and study are conducted, and the Buddhist chaplain leads weekly meditation. Periodic interfaith celebrations are also an important part of the university community's learning and growing together.

Center for Psychological and Learning Services

The Center for Psychological and Learning Services is located in Mary Graydon, room 201, (202) 885-3360.

Psychological Services

The psychological services offered at The American University provide opportunities for help with one's personal and academic concerns. Students may receive professional counseling and assistance in a variety of areas.

Group and individual counseling, intake, referral, and assistance in a crisis are services available through Psychological Services. In addition, the staff offers a series of workshops on issues related to personal growth and social skills. A stress-management program designed to help students develop effective coping strategies is offered each semester for undergraduate and graduate students.

The psychological services staff is composed of clinical and counseling psychologists and social workers who are experienced in working with college students. All discussions are confidential, in conformity with federal and local law.

The Center for Psychological and Learning Services is the site for information regarding the national tests such as the CLEP, GRE, LSAT, and MAT.

Learning Services

The Learning Services Center offers individual and group assistance for improving learning skills important to academic survival in college. Programs and sessions with counselors are available in areas such as writing and study skills, grammar, critical reading, vocabulary, time management, the English Competency Examination, speed reading, note-taking, examination skills, and reading comprehension. Learning services are available free to full-time students and free to part-time students on a space available basis.

Learning disabled students may receive academic support from the center. More specific help is available to those students admitted to the Program for Learning Disabled Students. (A fee is required. Consult Learning Services for more information on this program.)

The center also provides referral to qualified tutors (who charge reasonable fees) for many courses taught at The American University.

Office of Residential Life

Living on campus is a unique and rewarding experience. At The American University, learning in the classroom is extended into the residence halls in both formal programs, such as The Living-Learning Center, Honors Floor, and the Intercultural Residence Hall; and in informal programs, such as talks by faculty members and workshops by the Learning Services staff. Upperclass and graduate students are specially selected as resident assistants (RAs) to ensure that the atmosphere on each floor is open, friendly, and supportive. RAs receive extensive training in listening, program planning, cross-cultural communication, advising, and dispute resolution. They organize floor participation in social gatherings, academic programs, and cultural events both on and off campus. Each residence hall is directed by a live-in full-time professional resident director.

The American University offers housing in nine residence halls to more than 3,300 undergraduate men and women. Most rooms are doubles, accommodating two students. A very limited number of singles is available to upperclass students at a higher cost. Most halls offer both single-sex and co-ed floors or wings.

The Living-Learning Center in the residence halls is available for selected students. A focus on community development, community action, and volunteer activities is provided through the center. The College of Arts and Sciences administers the center and should be consulted for further information about the program.

Space in university residence halls is offered first to full-time undergraduate students as available. Limited space may be provided for graduate, law, and part-time undergraduate students when available. Students in all these categories should consult the Office of Housing Management for assignment information. The housing agreement is binding for a full academic year (fall and spring semesters). Room rates are listed in the "Tuition, Expenses, and Financial Aid" chapter of this publication. Health-insurance coverage is a prerequisite for on-campus residence.

Housing information and application cards for entering students are included in the admissions packet. Returning students are given the opportunity during the spring semester to apply for space. A room deposit is collected each year when availability of space for the students is confirmed. This deposit is then applied to the student's spring-semester account.

Rooms contain basic furnishings. Electrical equipment permitted in dormitory rooms is limited to low-wattage appliances. Kitchen facilities are available on each floor.

Resident students must observe all university regulations, including those specified in the housing agreement that they (and their parents, if students are under age eighteen) sign. They are held responsible for damage to their rooms and floors during their period of occupancy and are billed, either individually or with roommates, subtenants, or hallmates for damage. The residence halls close completely during the intercession period between fall and spring semesters.

Refunds for students withdrawing from housing are made in accordance with the schedule contained in the housing agreement.

The Office of Residential Life is located on the second floor of the Mary Graydon Center, room 200. The Office of Housing Management is in McDowell Hall, room 4.

Off-Campus Housing

New students may live on or off campus. The Information Center, located on the first floor of Mary Graydon Center, offers a guide to off-campus housing, a roommate reference file, apartment directories, landlord and tenant information, mass transit schedules, off-campus housing listings, and other resources. The center is open Monday through Friday, from 9:00 a.m. to 9:00 p.m., Saturday 11:00 a.m. to 5:00 p.m., and Sunday from noon to 5:00 p.m. A special off-campus housing clinic is held in Mary Graydon Center during the two weeks preceding and following each semester. Also, the Graudate Orientation and Housing Conference, held during the summer, offers expanded services and provides a group workshop for participants.

Student Health Center

The Student Health Center, located on the first floor of Nebraska Hall, is available to all full-time undergraduates, graduates, and law students with a physicians report on file. Off-campus students can join the center for a nominal health fee.

The center provides a variety of outpatient medical services, most without cost, some with a modest fee. Services include primary medical care, immunizations, allergy injections, gynecological services, and first aid. On-site physicians, as well as physician assistants, nurse practitioners, and registered nurses, provide clinical and health-education services. The center is open daily from 8:30 a.m. to 6:00 p.m. and until 8:00 p.m. on Tuesdays and Thursdays, and Saturday 10:00 a.m. to 1:00 p.m. during fall and spring semesters.

Complex medical problems, or emergencies when the center is closed are referred to a local hospital. In such cases, students are responsible for the accompanying charges. For more information, call the Student Health Center at (202) 885-3380.

Student Health Insurance Plan

It is strongly advised that all students attending The American University have some form of health insurance. Health insurance, either private, group, or the university health insurance plan, is mandatory for all students residing in university housing and for all full-time international students with F-1 or J-1 visas.

A comprehensive accident and sickness insurance program is available to students at The American University. Detailed information concerning this plan is available in the Student Health Center, Nebraska Hall and the central office of the Division of Student Life, Butler Pavillion, room 401. Students who reside in university housing and full-time international students with F-1 or J-1 visas who elect not to purchase an insurance plan of their choice will be

required to enroll in the group health program available through the university.

Special Services for Students with Disabilities

Working with students who have temporary or permanent physical disabilities, the Office of Special Services assures equal and full participation in academic programs and campus activities. In addition to staff, a corps of students and volunteers assists American University students. Services include arrangements for interpreters, readers, typists, tape recorders, note-takers, research aides, and special testing, if requested by the student. Furthermore, assistance is provided regarding accessible classrooms and on-campus housing. Designated staff members throughout the university administrative offices are available to solve problems or to act as liaison between the student and faculty or other university staff.

Child Development Center

The American University offers an innovative educational program for members of the university community. The Child Development Center in Hughes Hall provides a stimulating atmosphere for children between two and a half and six years old. Children are enrolled for a semester in a half-day or full-day program.

The center is a classroom for collegians as well, offering students from all disciplines a place to observe, create, and test theories. It serves as a laboratory for students majoring in psychology, sociology, or education; an arena for students from the departments of performing arts and literature; and a studio for communication students. The center also offers work-study jobs to undergraduates interested in child development and family life.

Student Organizations

Student Confederation

The Student Confederation (SC) is the undergraduate student government representing the academic, political, social, and cultural interests of the student body. The General Assembly, the legislative branch of the SC, is made up of the SC Executive Board as well as representatives from each residence hall and college. Bi-monthly meetings are held to establish policies governing operations and to approve the budget which funds most student clubs and organizations.

Three major arms of the SC are the Student Union Board, the Confederation Media Commission, and the Inter-Club Council. Student Union Board is the programming arm of the SC, sponsoring events including movies, concerts, and coffee houses. The Confederation Media Commission coordinates all SC-funded media and provides oversight to student publications such as *The Eagle* newspaper, the literary magazine, *The Talon* yearbook, and

broadcast media such as radio station WVAU and WAVE-TV. The Inter-Club Council oversees and funds all special interest clubs on behalf of the General Assembly.

Graduate Student Council

The Graduate Student Council serves as the advocate for graduate students at The American University, with representation on policy-making bodies including academic policy boards. The council, composed of representatives from the colleges and departments of the university, also sponsors social and educational activities and plays a major role in the orientation program for new graduate students.

Residence Hall Association

The Residence Hall Association is a specialized student government representing all resident students. A major responsibility is social and cultural programing in each hall as well as participating in campus-wide activities.

The association makes recommendations to the Office of Residential Life and Office of Housing Management concerning the operation and management of the residence hall system, and it monitors university policy as an advocate of resident students.

Intercultural Organizations

All international students are automatically members of the International Students' Association. The association's goal is to help foreign students adjust to their new social and academic environment and to increase understanding and cooperation among foreign and American students. Students from geographic regions or individual countries also form clubs in order to share common interests and goals.

In addition, the foreign student community publishes its own biweekly newspaper, *The International Voice*, as part of the campus newspaper, *The Eagle*.

The Black Student Alliance serves as the black student union. Its primary goal is to provide a supportive cultural, social, and academic atmosphere for the black student community. Other traditional black student organizations include the NAACP (National Association for the Advancement of Colored People), the Gospel Choir, and the Black Law Student Association. In addition, the black student community publishes its own biweekly newspaper, *Uhuru*, as part of the campus student newspaper, *The Eagle*.

The Jewish Students' Association enriches campus life by sponsoring events, providing a support network, and discussing current issues in conjunction with Hillel.

Lectures

Several student organizations sponsor lectures by ambassadors, members of Congress, journalists, activists, and representatives of political parties. National Organization for Women President Molly Yard, former British Prime

Minister Harold Wilson, Mayor Andrew Young, Arthur Schlesinger, Governor Bruce Babbitt, and G. Gordon Liddy have been recent speakers sponsored by campus groups such as the Kennedy Political Union, the Black Student Alliance, the International Student Association, Pan Ethnon, and the Graduate Student Council.

Professional, Scholarly, and Honorary Societies

At The American University select students may seek appointment to both professional and service honoraries. Among scholastic societies, membership is available in The American University chapter of Phi Kappa Phi (chartered in 1964), Who's Who in American Universities and Colleges (for outstanding junior and senior students), and Mortar Board (the national senior honor society for student leadership, scholarship, and service). Furthermore, Omicron Delta Kappa honors junior and senior students in five major phases of campus life: social service and religious activities, athletics, campus government, media, and the arts. Alpha Lambda Delta, a national freshman honor society, recognizes scholastic achievement. There also exist professional honoraries established in the fields of chemistry, premedicine, prelaw, music, economics, communication, criminal justice, journalism, history, education, public affairs and administration, business, international service, psychology, sociology, and political science.

Music

Musical groups on campus include The American University Chorale, The American University Orchestra, The American University Singers, and The American University Gospel Choir. The American University Singers schedule concert tours in addition to their campus programs. Qualified students may register in most of these musical organizations for credit. In addition, the Tokyo String Quartet and the Washington Music Ensemble are performing groups in residence.

Drama and Dance

The American University Players present classic and contemporary productions throughout the year and also schedule play readings, one-act plays, and dramatic television productions. The Department of Performing Arts sponsors annual fall and spring dance concerts and open workshops with guest artists in residence.

Political Organizations

Political organizations on campus encourage participation in local and national political activities and sponsor events attended by members of Congress, journalists, and others active in the political arena. Among campus political organizations are the College Young Democrats, College Republicans, and the Young Americans for Freedom. Other groups include the Human Diversity League, the Women's Forum, Amnesty International, AU Consortium for Peace Research Education and Development, Hunger Action, and Students Against Drunk Driving (SADD).

Student Media

A number of opportunities exist for students interested in campus media: *The Eagle* (weekly student newspaper of the university), *The Talon* (the university yearbook), WAMU-FM (university-sponsored public radio at 88.5 FM), WVAU (student-operated campus radio), and WAVE-TV (student-run television station on campus).

Greek Organizations

Sixteen sororities and fraternities provide service, promote scholarship, encourage leadership, and create an atmosphere for active social, philanthropic, and campus involvement. The national sorority chapters on campus are Alpha Chi Omega, Alpha Epsilon Phi, Alpha Kappa Alpha, Delta Gamma, Delta Sigma Theta, Phi Mu, Phi Sigma Sigma, and Sigma Delta Tau.

Fraternities include Alpha Phi Alpha, Alpha Sigma Phi, Alpha Tau Omega, Delta Tau Delta, Kappa Alpha Psi, Phi Sigma Kappa, Sigma Alpha Mu, and Zeta Beta Tau. A Greek honor society, the order of Omega, exists to recognize and promote scholarship. The Interfraternity Council which governs fraternities and offers a forum for chapter discussion, and regulates rush activities, is an active part of the Greek organization. The governing body for sororities, the Panhellenic Council, oversees and coordinates the rush program, sponsors social and philanthropic programs, hosts events pertaining to women's concerns, and represents sorority interests.

The American University Greek Council was established as a forum for all Greek organizations, to promote better communication among all of the chapters and to ensure the success of Greek life on campus. The sixteen chapters participate in programs such as student orientation and the Special Olympics.

Services

Banking Facilities

A local bank operates twenty-four-hour automatic tellers in Butler Pavilion, Clark Hall, and Mary Graydon Center. Several other banks are located within walking distance of the campus.

Office of Student Accounts

Following admission to the university, students handle all financial transactions with the university through the Office of Student Accounts located in Asbury Building.

Campus Stores

The campus bookstore, located in the Abbey Joel Butler Pavilion, carries all required textbooks, a large selection of other books, all necessary paper supplies and stationery as well as other items. The Eagle's Nest, also in the Butler Pavilion, carries food, magazines, newspapers, and toiletry items.

Other stores and services include a copy center, mailbox service, dry cleaner, pizza carry-out, clothing store, and beauty salon.

Dining Services

The contract dining room, University Club dining room, cafeteria, snack bar, tavern, carry-out, and some food-vending machines are located in Mary Graydon Center. Various seven-day and five-day meal plan options are offered on a semester basis.

Mail Service

The university maintains a United States Post Office contract substation on the campus. Mail boxes are available at the Post Office for international students who live off campus. Mail boxes in each dormitory are furnished to all resident students.

Transportation

The Office of Security, Parking, and Traffic operates a free shuttle bus service transporting students, faculty, and staff to off-campus residence halls, Tenley Campus, and the nearby subway station.

All commuting students who live in nonuniversity housing, and all resident students (except Nebraska Hall residents) who are sophomores or above are allowed to have motor vehicles on campus. Students living in fraternity houses on campus and on the Tenley Campus are considered resident students for parking purposes. These vehicles must be registered with the Parking and Traffic Office in Clark Hall and must display a valid parking permit. Drivers on campus must observe the university's parking and speed-limit regulations, copies of which are available from the Parking and Traffic Office.

National Center for Health Fitness

The National Center for Health Fitness, located in Nebraska Hall, provides physiological and health counseling for members of the university community.

General Academic Regulations and Information

As part of providing a high-quality education, the university continuously examines its academic requirements. As a result, the information contained in this and other sections of this publication may be revised. Students should consult their deans or department chairs for any new requirements that may affect their individual programs of study.

General Academic Information

Academic Advising

The American University considers academic advising an essential element of the educational process. The various advising resources at the university are available to help students define the choices they must make and to give any needed guidance. Students with academic concerns may seek assistance from course professors, faculty and professional advisers, peer advisers, department chairs, deans, and various student support services throughout the university.

The university recognizes differing advising needs of students and provides opportunities to ensure that these needs are met. Some students prefer close supervision and support from advisers through each step in the educational process. Other students prefer to seek guidance on a more informal, intermittent basis.

The American University requires adviser-student conferences at least once a semester. The student, however, bears the ultimate responsibility for selecting courses, meeting course prerequisites, and adhering to policies and procedures. An adviser assists the student in order to ensure a well-balanced education and interprets university policies and procedures.

It is the student's responsibility to be aware of the many advising resources of the university and to use these resources as needs arise. The university maintains responsibility for ensuring that these resources maintain high standards for serving students effectively and efficiently and that needs are being met.

See also: Career Center, Center for Psychological and Learning Services, and International Student Center in this publication.

Grading System

Calculated in the Grade-Point Average

Grade	Quality Points
A (Excellent)	4.0
A-	3.7
B+	3.3
B (Very Good)	3.0
B-	2.7
C+	2.3
C (Satisfactory)	2.0
C-	1.7
D	1.0
F	.0
X (administrative penalty)*	.0

*The X grade is assigned by the instructor in lieu of an F when a student never attended or ceased attending the class, rendering an assessment of academic performance impossible.

Not Calculated in the Grade-Point Average

- I=Incomplete
- IP=in progress (for a course for which a grade is not necessarily due at the end of the semester)
- L=auditor (no credit)
- N=no grade reported by instructor or invalid grade

P=pass
 W=withdrawal
 ZF=fail on pass-fail option
 ZL=administrative withdrawal from audit
 ZX=fail (administrative penalty) on pass-fail option

Grade-Point Average

The cumulative grade-point average includes only those courses taken for conventional grades (A through F). Courses below the 100 level or taken pass-fail are not included in the grade-point average, nor are grades of incomplete (I). See also "Repetition of Courses" below.

Credit accepted for transfer from another institution is included in the total amount of credit applicable to degree requirements, but grades earned in such courses are not recorded on the permanent record at The American University and are not used in computing the cumulative grade-point average needed for graduation.

For calculation of the graduate cumulative grade-point average, see "Graduate Study" in this publication.

Pass-Fail

For undergraduate students, the grade of P indicates a quality of performance no less than C (2.00) on a conventional grading scale. For graduate students, the grade of P indicates performance equivalent to a B (3.00) or better on a conventional grading scale. Performance below these levels is reported as ZF.

Neither the P grade nor the ZF or ZX grade is calculated in the grade-point average. Degree credit, however, is received with the grade of P.

Incomplete Grades

At the discretion of the faculty member, the grade of I (Incomplete) may be given to a student who, because of extenuating circumstances, is unable to complete the course during a semester. The grade of "Incomplete" may be given only if the student is receiving a passing grade for the course work completed. Arrangements for a grade of "Incomplete" must be made in advance of the final examination. An Incomplete Contract form detailing what work is to be submitted, the deadlines for such submission, and a grade to be substituted for the I should submission deadlines not be met is signed by both the student and the faculty member. The submission deadline should not extend beyond the last day of the following semester (not counting summer).

No grade of I will be recognized by the Office of the Registrar without the proper documentation. On completion of the requirements of the course within the time specified on the Incomplete Contract form, the grade of I must be resolved to a grade of A through F, P, or ZF. Unless resolved by the faculty member to one of these grades, the substitute grade specified on the Incomplete Contract form will be inserted as a final grade in place of the I by the Office of the Registrar. A W may not be given to remove a grade of I. An I may not stand as a permanent grade. (For regulations pertaining to independent reading courses and independent study projects, see the appropriate section in this publication.)

Communication of Grades to Students

Grade reports are mailed to students as soon as possible after the end of an academic session. At the time the first grade reports are issued, an N is substituted for each grade that has not yet been received. Supplemental grade reports are prepared as changes occur and such changes are reported weekly to students and deans by the Office of the Registrar. Many instructors release grade results to their students in various ways as soon as they have completed their evaluation.

Changes in Grades

Once reported, a grade may not be changed except to remove a grade of incomplete as stated above, or to correct a grade recorded in error. To remove a grade recorded incorrectly, the faculty member must certify in writing to the Office of the Registrar that an error was made.

Repetition of Courses

Whenever a course is repeated, each attempt, including the final grade, is entered separately on the permanent academic record. Unless specifically indicated to the contrary, however, only one successful attempt of a course is counted toward fulfillment of graduation credit requirements. With the exception of the Freshman Forgiveness rule (see "Undergraduate Study" in this publication), the grades received in all attempts are considered in the computation of the undergraduate cumulative grade-point average. For calculation of the graduate cumulative grade-point average, see "Graduate Study" in this publication.

Student Records

A permanent record, reflecting academic achievement, is maintained in the Office of the Registrar for each student who registers at the university. Information needed for the continuing evaluation of the progress of a student, including grades earned, is sent by the University Registrar to the dean of the student's college or school as it becomes available. For more information regarding student records, see "Confidentiality of Student Records" in this publication.

Transcripts

Students may obtain transcripts of their academic records from the Office of the Registrar. There is a \$2 fee for each official transcript.

Transcripts will be released only on the signed request or release of the student concerned.

The university will not issue a transcript that reflects only a part of the student's record, nor will it make copies of transcripts on file from other colleges and universities.

Certification of Enrollment

The Office of the Registrar supplies, on request of a currently enrolled student, certification of certain academic data concerning the records and status of the student. These certifications are used for Department of Education and scholarship forms, employment applica-

tions, and so forth. They are not to be confused with transcripts of the student's permanent academic record.

Name Change

The student's name entered on the permanent record may be changed if the name has been legally changed and if the change is supported by court order. Changes of name on the permanent records will be made for currently enrolled students only. Diplomas may not be changed or reissued.

Graduation

The university confers degrees and issues diplomas at the end of the fall, spring, and summer terms. Formal commencement ceremonies are held in January for fall degree candidates and degree recipients from the preceding summer, and in May for spring degree candidates.

Candidates for degrees are to file an Application for Graduation form in the degree clearance section of the Office of the Registrar during the period of registration for the last expected term of study.

Students pay a graduation fee of \$25 at the time they file their first file for degree clearance. There is no fee for reapplication.

Only after application for graduation has been made can the Office of the Registrar begin processing the necessary information for final certification of graduation. Students who fail to complete all degree requirements by the end of the term for which they applied to graduate must reapply in order to graduate later.

Graduate students are advised also to consult the more detailed information about comprehensive examinations, thesis, and dissertation deadlines, etc., available from academic offices.

Conferral of Degrees and Commencement

Only students who successfully complete degree requirements by the end of the term for which they have applied (or reapplied) to graduate are certified for conferral of a degree. In witness of the degree conferred, the permanent records of the graduates are appropriately noted with a statement of graduation and their diplomas are released.

All candidates for degrees whose academic records indicate that they can satisfy degree requirements by the end of the term for which they have applied are permitted to participate in commencement ceremonies. Students who are eligible to receive summer or fall degrees are recognized in the winter ceremony; those who appear eligible to receive spring degrees are recognized at the spring ceremony. For fall and spring degree candidates, final certification for the degree is not made until after the ceremonies have been held. Participation in a commencement ceremony does not itself constitute conferral of a degree, nor does it imply an obligation on the part of the university to award a degree before all requirements have been met and certified.

Registration

Registration is conducted on the dates specified in the academic calendar published in detail in the *Schedule of*

Classes. Students who register during advance registration are billed later. During direct registration students pay when they register. In order to register, a student must (1) be admitted to the university or be approved for enrollment for nondegree study; (2) clear any balances on the student account; (3) secure approval of a program of study from an academic adviser; (4) complete the necessary registration advisement forms; (5) file all registration forms with the Office of the Registrar; (6) and pay tuition and fees. More detailed information and instructions are published in the *Schedule of Classes*.

Late Registration

Late registration begins with the first day of classes for the term and is permitted during the period provided in the academic calendar. No student will be allowed to register after those dates. Students registering during late registration must pay a fee of \$50 in addition to other charges.

Changes in Registration

A student who finds it necessary to add or drop a course or change a credit value (in a variable-credit course) or grade type in a course in which he or she is already registered may make such an adjustment during the periods specified in the semester's *Schedule of Classes*.

A student may not add a course after the second week of classes for fall or spring (or the equivalent for summer), with the exception of independent reading courses or study projects, which may be added through the fourth week of classes. A student may not change a grade option after the second week of classes.

A student may withdraw from a course from the beginning of a semester until the midterm date established by the registrar. After that, a course withdrawal will be permitted only with the approval of the dean or dean's designate of the student's school or college. The instructor's approval may be required, but in all cases the dean must confer with the instructor and inform the instructor in writing of the decision. In any case, withdrawal from courses after the midterm date should occur rarely and only in cases of well-documented emergencies beyond the student's control. A low or failing grade in the course is not grounds for a late withdrawal.

When a student withdraws from a course during the first two weeks of a semester, the course will not appear on the academic record; withdrawal thereafter is noted with a W in place of a grade. Withdrawal during a summer session is subject to the same rules, proportionally adjusted.

To effect any of these changes in registration, a Course Registration Change form must be submitted to the Office of the Registrar after the appropriate approval signature or signatures have been obtained. Detailed instructions are provided in the *Schedule of Classes* each term. Discontinuing attendance in class or notifying an instructor of a status change does not constitute an official action.

Student Responsibility

Students assume financial and academic responsibility for each course they register for. Refunds, cancellation of charges, and release from courses are governed by the

refund and withdrawal policies stated in this publication and in the *Schedule of Classes*. Unless a course is canceled by the university, charges for it remain in effect and the student continues to be responsible for completing it unless the student drops the course or withdraws from the university.

But in all cases the dean must confer with the instructor and inform the instructor in writing of the decision. In any case withdrawal from courses after the midterm date should occur rarely and only in cases of well-documented emergencies beyond the student's control. A low or failing grade in the course is not grounds for a late withdrawal.

Students are also responsible for properly registering for the course they intend to take. Attending class and completing the required work do not constitute an official registration.

The appropriate forms for these actions must be submitted to the Office of the Registrar. The date on which the registrar receives the student's written notification of drop or withdrawal is the effective date on which academic action, refunds, and cancellation of charges are based. Discontinuing attendance in class or notifying an instructor of a status change does not constitute an official withdrawal or course change.

Nondegree Student Registration

A student who does not wish or is not ready to pursue a degree program but desires to register for particular courses for which he or she is qualified may be considered by the University Programs Advisement Center for permission to enroll as a nondegree student. Such a student receives full academic credit for courses successfully completed. See "Nondegree Study" in this publication for details.

Off-Campus Registration

The Office of Continuing Studies arranges for course offerings at selected off-campus locations throughout the Washington metropolitan area. These courses provide nondegree study opportunities and can also be used in both graduate and undergraduate degree programs. Although the scheduling of off-campus courses follows the general pattern of the university calendar and time schedule, it does not necessarily conform exactly to the campus semester dates.

While students may register for most off-campus courses on-campus during regular registration, special registrations are also held at the off-campus locations. For further details, consult the Office of Continuing Studies.

Consortium Registration

In cooperation with The Catholic University of America, Georgetown University, The George Washington University, Howard University, The University of the District of Columbia, Gallaudet University, Mount Vernon College, Trinity College, the University of Maryland, and Marymount University, The American University offers qualified undergraduate and graduate degree students the opportunity to enroll for courses at any of these institutions through the Consortium of Universities of the Washington Metropolitan Area. Such courses are usually limited to those not offered by or not immediately available at The

American University. Credit earned through this program is considered residence credit.

Courses in the off-campus program of The George Washington University may not be taken through the consortium program by American University students, nor may students from other consortium universities take American University off-campus courses through the consortium program.

Independent reading courses, independent study projects, special tutorial courses, and courses offered in medicine, dentistry, nursing, or canon law are excluded from consortium registration.

To be eligible for this program, students must (1) be fully admitted degree students, (2) be actively enrolled, (3) be in good academic standing, (4) be approved by the American University dean or department chair of the subject matter field for which registration is requested, and (5) be approved by the Office of the Registrar. The student is responsible for securing approval at the cooperating institution.

Forms to be used for this program are available in the Office of the Registrar. American University students must follow the registration procedures published in the *Schedule of Classes* for that term and pay the tuition rate of The American University. Special fees (such as lab fees) are paid to the school where the course is offered.

Consortium Libraries Graduate degree students enrolled in one of the consortium universities or associated member colleges will be eligible for direct-borrowing cards. Applications for a consortium borrowing card are to be made at the main library of the home university.

Any eligible consortium student who registers for a course at another consortium institution automatically receives library privileges at the institution giving the course.

Auditing

A student who wishes to attend a class but who does not wish to participate, take examinations, receive a final grade, or receive credit for the course may register as an auditor. Tuition and fees for auditors are the same as those for students registering for credit.

Faculty may establish standards of class participation and attendance for auditing that must be met if a student is to remain in audit status.

Changes to or from audit must be made before the last day to add a course.

Undergraduate Audit Program

Qualified undergraduate students may audit up to nine undergraduate credit hours free of charge after they have completed 120 credit hours at The American University or while enrolled in the semester in which the last course required for a degree is to be completed. Enrollees in this program must have a cumulative grade-point average of 3.50 on completion of ninety credit hours at The American University. Registration is accomplished during the first two weeks of a semester. Courses taken under this program do not involve tuition, but any special fees (for example, a music fee) must be paid by the student.

Alumni Audit Program

Holders of degrees from the university may take one nontutorial course each fall and spring semester as auditors with tuition remitted; a nominal registration fee is charged. An alumnus or alumna wishing to audit a course is limited by the availability of space in it during the late registration period. Registration under these terms does not include such courses as independent study, laboratory courses, private music instruction, or maintaining matriculation. An alumnus or alumna who wishes to have a course reflected on his or her academic record, or who wishes to receive credit for the course, must enroll through the Registrar's Office and pay tuition at the prevailing rate.

Withdrawal from the University

A degree-seeking student who wishes to withdraw from the university should go to the dean's office of their academic unit for the completion of a Withdrawal Request form, for an exit interview and counseling, and for information on the refund policies and procedures of the university.

Nondegree students who wish to withdraw from the university should complete a drop form for each course they are registered for and submit the forms to the Office of the Registrar.

General Curricular Information

Academic Calendar

The academic calendar is divided into fall and spring semesters (of approximately fourteen weeks each) and a summer term (also of approximately fourteen weeks) consisting of two seven-week sessions (evening classes), two six-week sessions (daytime classes), a ten-week session, and a three-week session.

The last week of the fall and spring semesters is set aside for final examinations. However, the decision to give final examinations is left to the discretion of the college, school, department, or individual instructor offering the course. If no final examination is given, the course will meet for a final class during the scheduled final examination period. The time set for all final examinations is two and a half hours.

The holidays and vacations usually observed by the university are as follows: Labor Day; Thanksgiving weekend (Thursday, Friday, Saturday); Christmas and New Year's Day (included in the midyear intercession break); Martin Luther King Day; Inauguration Day (every four years); Memorial Day; and Independence Day. Classes continue until 10:40 p.m. the evening before a holiday or vacation period.

The official calendar for each academic term is published in detail in the *Schedule of Classes*. Faculty members and students should check this source for final information about the current academic calendar. The university reserves the right to change any published calendar. Information about last-minute changes will be

distributed as widely as possible, especially through the local news media.

The Washington College of Law traditionally follows a calendar which differs somewhat from that of the rest of the university.

Course Numbers

Each course is designated by a five-digit number. The digits to the left of the decimal point represent either the teaching unit offering the course or an area within such an academic unit: 03.xxx Anthropology; 19.xxx Economics; 07.xxx Art History. The last three numbers identify the level of the course as follows: xx.001-xx.099=no degree credit; xx.100-xx.499=undergraduate degree credit; xx.500-xx.599=graduate courses to which advanced undergraduate students may be admitted; xx.600-xx.799=graduate courses to which undergraduate students usually are not admitted.

Off-campus courses carry the letter O as a prefix to the teaching unit code. The current teaching unit codes for course numbers are as follows:

Teaching Unit Name	Course Number Code
American Studies	02.xxx
Anthropology	03.xxx
APEL	77.xxx
Art:	
Art History	07.xxx
Studio and Design	05.xxx
Audio Technology	50.xxx
Biology	09.xxx
Business Administration:	
Accounting and Taxation	14.xxx
Finance and Real Estate	13.xxx
International Business	12.xxx
Management	10.xxx
Marketing and Procurement	11.xxx
Chemistry	15.xxx
Communication	17.xxx
Community Studies, Latino Institute	71.xxx
Computer Science	40.xxx
Consortium and Cooperative Program Institutions:	
The Catholic University of America	82.xxx
Gallaudet University	85.xxx
George Mason University	97.xxx
Georgetown University	86.xxx
The George Washington University	87.xxx
Howard University	88.xxx
Marymount University	96.xxx
Mount Vernon College	84.xxx
Trinity College	89.xxx
The University of the District of Columbia	83.xxx
The University of Maryland	91.xxx
Wesley Theological Seminary	81.xxx
Dance (see Performing Arts)	
Economics	19.xxx
Education	21.xxx
English Language Institute	74.xxx
Government	53.xxx
Health and Fitness	49.xxx
History	29.xxx
Information Systems	55.xxx
Interdisciplinary Studies	75.xxx

International Service	33.xxx
Jewish Studies	34.xxx
Justice, Law, and Society	73.xxx
Language and Foreign Studies:	
Advanced and Topics	37.xxx
Elementary and Intermediate	36.xxx
Linguistics	38.xxx
Law	39.xxx
Literature	23.xxx
Mathematics	41.xxx
Performing Arts:	
Dance, Music, Theatre, and Arts Management	67.xxx
Applied Music	68.xxx
Philosophy	60.xxx
Physics	51.xxx
Public Administration	54.xxx
Psychology	57.xxx
Religion	61.xxx
Sociology	65.xxx
Statistics	42.xxx
Study Abroad	92.xxx
	94.xxx
	95.xxx
University Honors Program Seminars	01.xxx
Washington Semester	56.xxx
Women's Studies	76.xxx

Credit Values

All undergraduate and graduate courses are valued in credit hours. There are no fractional credit hours. Generally, each semester hour is equal to 50 minutes of class instruction a week.

Course Descriptions and Syllabuses

Descriptions of individual courses are given with the course listings in this publication. Course syllabuses are available from departmental offices.

Course Prerequisites

Many courses call for a minimum background of knowledge as indicated by prerequisite courses cited in individual descriptions. Titles and numbers are those of American University courses; equivalent courses satisfactorily completed at other accredited institutions also meet prerequisite requirements by transfer credit.

Students are responsible for entering the class with the required competence. Thus, prerequisites warn students of the knowledge they are to bring with them in order to meet the expected standards of performance.

Independent Reading and Study Courses

An Independent Reading Course is defined as a course in which a student by prearrangement with an instructor reads a body of material with little formal instruction.

An Independent Study Project is defined as a course in which a student does research on a topic agreed on by the student and the instructor or engages in study deemed worthy of the student's efforts by the instructor responsible for the course.

Registration for these courses is held during the regular registration period for a semester or summer session. A

student may add one of these courses until the end of the fourth week of a fall or spring semester or until the end of the second week of a summer session.

Before a student registers for an independently supervised course, the student and faculty member must agree on and document the title, objective, scope, and credit value (one to six credit hours) of the project to be pursued. The head of the teaching unit must approve the project and the faculty member's involvement, and certify that the project does not duplicate a course being offered in the same semester that would be available to the student.

It is expected that the student will meet periodically (or correspond if necessary) with the instructor to review progress. Students are generally expected to complete an independently supervised course within the semester of registration. At the discretion of the instructor, the time limit may be extended, however, to the end of the second term following the term in which the student registered (including summer).

Students in independently supervised courses may be assigned conventional grades or pass-fail grades, according to the agreement with the instructor made before registration. A temporary grade of IP (in progress) will be assigned by the instructor at the end of the semester in which the student registered if an extension of the time limit has been approved. The IP grade must be resolved to a final grade by the end of the second term following (including summer). Any further extension must be authorized according to the regulations governing grades of Incomplete listed elsewhere in this section.

Class Periods

Day classes, except those on Wednesday and Saturday, ordinarily meet two days a week for seventy-five minutes a meeting. Wednesday and Saturday classes ordinarily meet once a week for two hours and thirty minutes. Some classes meet three times a week for fifty or sixty minutes a meeting.

Evening classes ordinarily meet once a week for two hours and thirty minutes or twice a week for seventy-five minutes a meeting.

Classes at the 600 and 700 levels may, in some cases, meet for a total of two hours a week at the discretion of the teaching unit concerned.

Courses involving laboratory, studio, discussion groups, or workshops may vary from these schedules. Independent reading courses, study projects, internships, and similar kinds of study opportunities meet according to the special arrangement with the school, department, or faculty members concerned.

Students are advised to note carefully the meeting times and places listed in the *Schedule of Classes* for each term.

Emergency Cancellation of Classes

Unless cancellation of classes under special circumstances is announced publicly, classes will meet. When cancellation of classes is necessary, instructors are expected to arrange for additional reading, study assignments, or class meetings to compensate for attendance time lost.

Cancellation of Courses

Occasionally it is necessary to cancel a scheduled course because of low enrollment, because of the last-minute unavailability of an instructor, or for other unavoidable reasons. Every effort is made to announce cancellation before the first class meeting, but this is not always possible.

If a course is canceled, a student who does not choose to transfer to another course is automatically dropped and may receive a full refund of the tuition and fees paid for the canceled course by completing a refund request form in the Office of Student Accounts.

Class Attendance

The university considers class attendance a matter best left to the discretion of the individual instructor. It is expected, however, that faculty members who have a particular attendance policy will announce that policy at the first few class meetings each semester.

Veterans and others receiving government benefits are reminded that the paying agency may have specific attendance policies. Details of veterans' benefits are available from the veterans' counselor in the Office of the Registrar.

Confidentiality of Student Records

The American University complies with the Family Educational Rights and Privacy Act of 1974. In accordance with this act, the university allows students access to their official records and an opportunity for a hearing to challenge records they find inaccurate, misleading, or otherwise inappropriate.

The university must obtain students' written consent before releasing information from their records to persons outside the university, except as provided by the act and except for certain directory information. Information may be furnished to a student's parents without written consent only with certification of the student's financial dependence. A student who does not want directory information released must notify the Office of the Registrar in writing. Forms for this purpose are available from the registrar and should be filed within thirty days following enrollment at the university.

The university must comply with a judicial order or lawfully issued subpoena to release a student's record and will notify the student of this action.

Copies of the university's full policy statement on the confidentiality and release of student information may be obtained from the Office of the Registrar.

Rights, Responsibilities, and Code of Conduct

As adopted by the University Senate at its February 5, 1975 meeting and with the concurrence of the Provost, February 18, 1975.

Preamble

The American University community is composed of faculty, students and administrators who live, work, and study together in an institutional framework in pursuit of truth and the dissemination of knowledge. Freedom of inquiry and intellectual endeavor can flourish only in a community in which the participants are united in their mutual search for intellectual growth.

The pursuit of truth in a setting of free inquiry requires an institutional framework in which each member of the university community must recognize and be assured of the academic freedom and the personal rights and liberties of all the members of the community—for themselves and for each other. The preservation of academic freedom and personal rights and liberties in the fullest sense of those expressions are the responsibilities of each and every member of the community—in a real sense these freedoms and responsibilities are indispensable to the university community.

If the purposes of the university and its community are to be realized and advanced, the rights, responsibilities, and reasonable standards of conduct essential to a university community must be set forth.

The Rights, Responsibilities, and Code of Conduct of The American University hereinafter promulgated and set forth by the University Senate with the approval of the President and the Provost are established for The American University community.

Part I. Rights and Responsibilities

1. No member of the university community shall be deprived of academic freedoms, personal rights, and liberties without due and fair processes of applicable university regulations.
2. No disciplinary sanctions may be imposed upon any member of the university community under authority of the university without fair and due process provided.

Part II. Code of Conduct

Misconduct under this code for which the students are subject to university discipline is defined as follows:

- A. Physical abuse of any person on university premises or at university sponsored events or functions; or conduct which threatens or endangers the health or safety of any such person.
- B. Theft of university property or of property of a member of the university community on university premises.
- C. Willful, wanton, or reckless damage to university premises or property or property of a member of the university community; or littering on university property.
- D. In nonacademic university related matters, dishonesty or knowingly furnishing false information.

- E. Fraud, forgery, alteration, or unauthorized use of documents, university records, or instruments of identification with the intent to defraud or deceive.
- F. Intentional obstruction or disruption of teaching, research, administration, disciplinary proceedings, or other university activities, including public service functions and other authorized activities, on university premises.
- G. Entry or attempt to enter without lawful authority of any dwelling, building, or facility on university premises, against the will of the lawful occupant or of the person lawfully in charge thereof, or being therein or thereon, without lawful authority to remain, and refusing to quit the same on demand of the lawful occupant or of the person lawfully in charge thereof.
- H. Failure to comply with published university policy or with directions of university community officials authorized and acting in performance of their duties.
- I. Adjudicated violations of District of Columbia and federal law (including acts declared unlawful relating to narcotic drugs, dangerous drugs, alcoholic beverages, and gambling) on university premises and in university residence halls.
- J. Keeping, using, possessing, selling, or distributing of any firearms, fireworks, explosives, illegal drug paraphernalia, or dangerous weapons on university premises or in university residence halls or at university sponsored functions; or any other materials or substances which are prohibited by law with the sole exception of law enforcement officials duly authorized by law to possess firearms for the performance of their duties.
- K. Possessing, using, or consuming intoxicants except beer and wine where specifically authorized under lawful circumstances and conditions on university premises and in university residence halls.
- L. Gambling or other illegal or unauthorized games or contests of chance on university premises and in university residence halls or at university sponsored functions.
- M. Unauthorized soliciting or canvassing by any individual, group or organization on university premises or in university residence halls.
- N. Unauthorized use of the university's corporate name, which is property of the university, by any person, persons, or organizations.
- O. Failure to be fully responsible for the behavior of guests on university premises or in university residence halls.
- P. Harassment, intimidation, or hazing.
- Q. Violations of published rules governing university residence halls.

Conduct Council

The American University's students, faculty and administrative officers have created a Conduct Council to assure just, speedy, and constructive resolution of controversies arising from infractions of The American University Code

of Conduct for Students. For information on the Conduct Council, consult the Division of Student Life.

General Information

Student Responsibility

Students are responsible for their behavior, academic and otherwise, at The American University. The American University expects that students, as mature members of the academic community, will adhere to the highest standards of personal and academic integrity and good taste.

To protect their academic status, students should seek the appropriate approval of their academic program advisers. It is highly recommended that students keep their own records of all transactions with the university (grade reports, registration schedules and changes, incomplete forms, etc.).

It is also advisable to keep copies of all tests and papers submitted in fulfillment of course work.

University Liability

Faculty, students, staff, and guests are responsible for their personal property, clothing, and possessions. The university does not carry any insurance to cover losses of such articles nor does it assume any responsibility for such losses.

Required Immunizations

District of Columbia Law 3-20, Immunization of School Children, provides the following:

Diphtheria, Pertussis, and Tetanus (DPT): Students nineteen years old until their twenty-sixth birthday who are receiving a primary immunization are required to receive two DPT vaccine doses and one booster vaccine dose after six months for tetanus and diphtheria (Td). All DPT doses previously administered may be considered in this computation. However, if more than ten years have elapsed since the last Td booster was administered, an additional Td booster vaccine dose is required.

Polio: A polio vaccine immunization is not required. However, it is recommended that students who are unimmunized receive three doses of inactivated polio vaccine (IPV) and one booster vaccine dose after six months. Students who are incompletely immunized should complete the required doses of the vaccine previously administered.

Measles (Rubella), Rubella (German Measles), and Mumps: One vaccine dose for each of these diseases is required before students enter school if these immunizations were not previously administered.

A physician-documented history of disease may be accepted in lieu of vaccination with the exception of rubella and measles. Laboratory evidence of immunity is acceptable in lieu of vaccination for all seven diseases, and in some circumstances may be required.

Program Accessibility for Students with Disabilities

Most of The American University's educational programs are readily accessible to students with disabilities, and the university continues to take steps to eliminate

barriers to participation by qualified handicapped students.

To provide adequate time for any special preparations required of the university, applicants with handicaps are encouraged to make their plans and, especially, to visit the campus as early as possible in the application process; campus tours may be arranged through the Office of Admissions. In addition, the Center for Psychological and Learning Services can usually make special arrangements for the applicant to take admissions tests. The university will treat confidentially all inquiries from handicapped applicants. Any information voluntarily provided will in no way be used in evaluating the applicant's file for admission; it will be used only to assist the student.

Applicants who may need and be eligible for tuition benefits and auxiliary aids (such as readers and interpreters) should apply for vocational rehabilitation benefits through

their home states as early as possible in making their college plans.

Accessible housing is available, both in a traditional dormitory on campus and in apartment units near the campus. The reference librarian will assist handicapped students in using the university library, consortium libraries, and the special resources of the Library of Congress.

Preadmission inquiries may be addressed to and general information obtained from the Office of Student Activities, Special Services for Students with Disabilities, Mary Graydon Center, room 220, The American University, Washington, D.C. 20016. The Director of Special Services is Ester Day. The Office of Special Services is located off the lobby of the first floor of Mary Graydon Center. The telephone number is (202) 885-3312 or for TDD (202) 885-3315.



The College of Arts and Sciences

Dean Betty T. Bennett

Associate Dean for Undergraduate Affairs
Naomi Baron

Associate Dean for Graduate Affairs
Robert L. Morasky

Associate Dean for Faculty and Curricular Development Austin M. Barron

Associate Dean for Budget and Administration
Kathleen Kennedy-Corey

Academic Counselor Carl E. Cook

Academic Counselor Elria Ewing

The College of Arts and Sciences is committed to providing an excellent liberal education for all undergraduates of The American University. Only the solid foundation of a liberal education will prepare the university's graduates to take their places as responsible free men and women in a democratic society. A liberal education is also an indispensable means by which to realize and develop the intellectual, creative, and moral capacities that lead to a full and balanced life.

The responsible exercise of freedom rests in part on the foundation of an arts and sciences education, a tradition whose roots lie in antiquity. The variety of fields now embodied in a liberal education has increased significantly since the Middle Ages. Whole new categories of quantification and evaluation enrich our potential for well-being and progress; new arts and new natural and social sciences join with the original disciplines of language, measure, and song to form a balanced curriculum of cultural, scientific, and moral education. At The American University, the liberal arts and sciences are practiced as ways of improving our relationships with each other, with the planet on which we live, and with other peoples, however difficult those relationships may currently seem.

A rigorous arts and sciences education stresses four things: mastery of expression, especially in the English language; command of bodies of knowledge and recognition that those bodies of knowledge will change; skills of

analysis and rational inquiry; and awareness of the moral dimensions of issues. A rigorous arts and sciences education provides for students four benefits: the development of individual creativity and intellectual potential; the capacity for intellectual imagination and play; the ability to make and to defend judgments of fact, value, aesthetics, and morality; and the basis for the wisdom that gives meaning to experience.

A liberal education is a preparation for a distinctive way of life, a life of freedom that is disciplined by rationality, ethical sensibility, and knowledge of oneself and one's world. A liberally educated person will not be a slave to ignorance, nor a hostage to narrow parochialism, nor a prisoner of outmoded techniques and technologies. A liberal education will prepare students of The American University for meaningful, healthful, ethical, and successful lives in our own rapidly changing and increasingly interdependent world.

The College of Arts and Sciences draws on the educational resources of Washington, D.C.—social, cultural, artistic, humanistic, and scientific to bring a unique dimension to the universal body of human knowledge. The city provides a wealth of distinguished visiting lecturers and myriad educational resources. The John F. Kennedy Center for the Performing Arts, the Library of Congress, the Smithsonian Institution, the National Academy of Sciences, the National Aeronautics and Space Administration, the National Archives, the World Bank, and foreign embassies are but a few examples of the educational resources of the national capital. These resources are used in a multitude of ways: through research projects, internships, off-campus classes, site visits, cooperative education programs, and courses specifically about the city and its institutions.

Faculty

The College of Arts and Sciences has a distinguished teacher-scholar faculty of some 263 full-time professors and approximately 295 adjunct professors. Experts in their own fields, they have included ambassadors, advisers

to presidents, world-renowned performers, national press figures, distinguished scientists, recognized artists and composers, pioneers in special education and learning theories, and consultants to major organizations, corporations, and even nations. Each year the college invites professors from other institutions, American and foreign, as well as artists in residence, to join the faculty.

Undergraduate Study

Academic Advisement

The college challenges students to assume substantial responsibility for defining their educational goals, yet provides careful professional guidance to help them respond to the challenge. Undergraduates plan their academic programs with faculty advisers or academic counselors according to their interests, vocational plans, and academic maturity. First-semester freshmen are counseled by means of a detailed curriculum guide. The response to this information provides the basis for the first semester's coursework. During freshman orientation, immediately before the beginning of the semester, entering students meet with their assigned advisers to discuss their academic programs. Usually, these advisers counsel students until formal declaration of a major, at which time the student selects or is assigned a faculty adviser in his or her major department. Transfer students go to the departments of their intended majors for academic advisement. If undecided on a major, transfer students are advised by a counselor in the Office of the Dean. Any student needing additional assistance from an academic counselor or dean of the College of Arts and Sciences should make an appointment through the receptionist, Gray Hall. Telephone: (202) 885-2440.

Foreign Language

The College of Arts and Sciences encourages students to gain proficiency in at least one foreign language. It is natural for students embarking on a career in international relations, a study of the humanities, specialization in minority groups in the United States, and those with many other interests to concentrate on language study. Graduate study will often require proficiency in one or more foreign languages.

Bachelor of General Studies

The Bachelor of General Studies (B.G.S.) degree with a major in General Studies is offered by the College of Arts and Sciences in conjunction with the Office of Continuing Studies. The degree is designed to serve the educational needs of adults who seek professional or personal advancement through either full- or part-time study. Advisement for students enrolled in the program is provided by academic counselors in the University Programs Advisement Center and by the faculty in the appropriate academic departments.

Associate in Arts Degree

Some students do not or cannot remain in college for four years, yet desire to complete a degree program. This situation, along with the development of the junior college,

has contributed to the popularity of the Associate in Arts degree, which may be awarded after successful completion of two years' study or its equivalent. The college offers an Associate in Arts degree with a major in General Studies only. To receive the associate degree, the student must fulfill the University Requirements in College Writing and College Mathematics and the General Education requirements for associate degrees, and must accrue a total of sixty credit hours with a cumulative grade-point average of 2.0 or better. (See "Continuing Studies" in this publication.)

Majors

By the end of the sophomore year, if not before, CAS students are expected to declare an academic major. It is in this field that the student pursues study in depth and synthesizes academic knowledge. Major programs are described under departmental sections of the college. A student should become familiar with departmental requirements and regulations as stated in this publication and on check sheets available in departmental offices. When making a formal declaration of major, students should ask to be assigned a major academic adviser who will supervise their studies until graduation.

Students interested in the natural sciences, mathematics, music, and art need to take specific courses in the freshman year if they intend to complete a degree in eight semesters. Such students should declare their interests as soon as possible and seek explicit counseling from the appropriate department.

Interdisciplinary Major

This program permits College of Arts and Sciences undergraduates to complete an interdisciplinary major according to their needs, abilities, and interests. A program is formulated with the advice and approval of three faculty members from disciplines relevant to the student's defined emphasis, and is subject to the review and approval of the dean.

The initiative in such degrees is with the student. It is the student who is responsible for determining the concept or theme on which the program is to center. With the three faculty members, the student determines the requirements of the chosen concentration and identifies a sequence of course work that fulfills the program's objectives. The program must be formulated in a written statement no later than the first semester of the junior year. (See "Interdisciplinary Studies" in this publication.)

Minors

Undergraduate students may earn a minor in most departments and programs of the College of Arts and Sciences. For all minors offered by the College of Arts and Sciences at least nine credit hours of the stated requirements must be taken in residence at The American University. (See "Undergraduate Study" in this publication. For descriptions of specific minor programs, see the individual departmental listings below.)

Preprofessional Programs

The college offers preprofessional curriculums in engineering, law, medicine and dentistry, social work, and theology.

Students interested in a graduate degree program in social work often major in one of the social sciences, with particular emphasis on sociology and psychology.

Pretheology students find the university's relationship with the Wesley Theological Seminary beneficial, and the Center for Campus Ministries directs an innovative program of religious activities that complements preprofessional studies in religion.

The preprofessional programs in engineering, law, and medicine and dentistry are described in separate sections of this publication.

Consortium

Affiliation with the Consortium of Universities of the Washington Metropolitan Area greatly expands the educational horizon for the student (see also the introduction in this publication.)

Living-Learning Center

Traditionally, classrooms have been used for learning and dormitories have been used for living. The Living-Learning Center integrates these two experiences into an enriched education program for freshmen who live on an Anderson Hall floor designated for students of the center and for upper-class honors students.

The small classes in the center's suite of rooms and the informal atmosphere of the dormitory encourage group interaction and a close relationship between students and faculty. Study facilities in the center provide participants with a convenient and comfortable place to study and meet friends. A student takes two courses offered by the center and selects other courses from those offered by the teaching units of the college or other schools.

Internships and Cooperative Education

Internship and cooperative education programs, which engage the student in practical experience in its most intimate terms, support learning and on-the-job training, interns work in many organizations in both the public and the private sector in the Washington area. The growing number of internships in the college is a convincing testimony not only to their popularity, but also to their success. For further information on cooperative education, see "Cooperative Education" in this publication.

Study Abroad

The College of Arts and Sciences regularly sponsors study-abroad programs during the regular academic year. Such programs and courses have been conducted in London, Rome, Greece, Spain, the Soviet Union, and Latin America. For further information, see "Special University Programs" in this publication or consult the office of the Washington Semester Program and World Capital Programs in the Dunblane House, Tenley Campus.

Graduate Study

The graduate programs of the College of Arts and Sciences are directed toward the development of highly competent scientists, sensitive teachers, and critical scholars. To achieve this objective, the college provides an academic setting and climate favorable to the free interchange of ideas and the disciplined exploration and testing of the most seminal of these notions. The primary function of this collaborative interchange between mature and maturing scholars is to enhance the latter's understanding and sensitivity to the spirit and styles of intellectual problems of their own choosing and actively to seek their solution. These individually defined problems and the creative inquiry they generate are the ultimate influence for the fashioning of each student's program of graduate study in the college. See the specific program descriptions under the individual departmental sections of the college below. Also, see "Graduate Degree Requirements" in this publication.

American Studies

Director Brett Williams

Full-Time Faculty

Professor K. Mussell

Associate Professor B. Williams

American Studies offers students the opportunity to explore American culture through many paths, including America's intellectual traditions, creative arts, popular media, material culture, ethnic variety, folklore, social structure, and social change. Students learn to draw together the tools and insights of other disciplines to capture the complexities of American society, and to discover what Americans share as well as how they differ. In addition to foundation courses in the program, students choose one area of particular interest to them. Some decide to concentrate in a field such as literature, business, journalism, anthropology, history, or art. Others create a more personalized specialty such as women's studies, black culture, or urban affairs.

All students learn to use and appreciate Washington's American Studies research centers and cultural resources, including the Library of Congress, National Archives, the Smithsonian Institution, and the city's many museums. Many study the city itself. Most work at internships during their senior year in such places as Congress, the Kennedy Center, the Smithsonian, or Common Cause.

The goals of the American Studies Program are to help each student develop an area of expertise and to build the skills for thinking critically, writing clearly, and untangling the relationship between large cultural forces and ordinary peoples' life experiences. American Studies graduates work in such diverse fields as journalism, broadcasting, local or national government, foreign service, teaching, museums, private business, and social services. Many students go on to graduate study or to law school.

B.A. in American Studies

Admission to the Program

A student who has earned a grade-point average of 2.50 in two courses related to the major qualifies for admission.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-three credit hours with grades of C or better.

Course Requirements

- 02.202 American Dream/American Life /A, S (3)
- 03.201 Cultural Anthropology /S (3)
- 02.400 Interpreting American Culture (4)
- Nine credit hours from the following:
 - 23.210 Major American Writers I: An Introductory Survey (3)
 - 23.211 Major American Writers II: An Introductory Survey (3)
 - 29.205 America's Quest for the Good Society: 1607-1865 /A 2:2 (3)
 - 29.206 America's Quest for the Good Society: since 1865 (3)
- Twelve credit hours selected from a single department or related departments and dealing with some aspect of American life.
- Nine additional credit hours in American Studies courses at the 300 level or above, excluding independent study and internship.
- One of the following as a senior project:
 - 02.410 Senior Thesis I (3)
 - 02.411 Senior Thesis II (3)
 - 02.491 Internship in American Studies (3-6)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in

the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in American Studies

Requirements

- 02.202 American Dream/American Life /A, S (3)
- 02.400 Interpreting American Culture (4)
- 03.201 Cultural Anthropology /S (3)
- Twelve credit hours in American studies at the 300 level or above.

Anthropology

Chair William L. Leap

Full-Time Faculty

Professor J.J. Bodine, K. Halpern (Emeritus), G.L. Harris (Emeritus), R.H. Landman, C.W. McNett, Jr., H.C. Moore (Emeritus), P. Nash (Emeritus), A.L. Vilakazi (Emeritus)

Associate Professor G.L. Burkhart, W.L. Leap, B. Williams

Assistant Professor D.B. Koenig

Research Faculty

Research Professor B. Maday

Research Associate Professor R.J. Dent

Research Assistant Professor V.G. Mason

Anthropology explores exciting questions about what is both universal and unique in the human condition. Anthropology, by its very nature, is a consciously nonsexist, nonracist, and nonelitist discipline; long ago anthropologists learned how to appreciate the variety of social and cultural systems in the world and the importance of looking at the human experience from various perspectives.

Different types of anthropologists explore these issues from different points of view. Cultural and social anthropologists, for example, untangle the richness of economic patterns, social systems, arts, and values of peoples around the world. Archaeologists help communities document and preserve the full detail of their history and prehistory. Physical anthropologists explore the dynamics of human evolution and study nutrition, health, and illness in their cultural contexts. Linguists examine different languages to see how linguistic structures affect speakers' perceptions of the world around them.

Studying anthropology at The American University introduces students to research in these and other areas while involving students in training programs and on-the-job experiences in which research can be applied to practical tasks. Internships within government or private agencies can be arranged for qualified students at all de-

gree levels. Washington, D.C., is an international city, replete with museums, libraries, embassies, and other sources for cross-cultural research. Anthropology faculty are actively involved in their own basic and applied research tasks, and students are included in project activities whenever possible.

Undergraduates will find it easy to coordinate a major or minor in Anthropology with degree requirements in other teaching units. Graduate students may choose between a regular M.A., an applied M.A., or the doctoral program, depending on background, career interests, and professional goals. Financial assistance may be available for students in all degree programs; consult the Office of Admissions for details.

B.A. in Anthropology

Admission to the Program

Formal admission to the major by the departmental undergraduate studies director requires a 2.00 grade-point average (on a 4.00 scale) and better than a 2.00 grade-point average in two anthropology courses.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of thirty-nine credit hours with grades of C or better.

If career plans require skill in a foreign language, a cluster of courses in a second discipline, field experience, or some other special preparation, arrangements will be made in discussion with the undergraduate adviser.

Course Requirements

- 03.201 Cultural Anthropology /S (3)
- 03.202 Human Origins /N (3)
- 03.225 Language and Human Experience /A 1:2 (3)
- 03.331 Human Variation (3)
- 03.334 Modern Archaeology (3)
- 03.336 Social Structure (3)
- 03.339 Culture Area Analysis (3)
- 03.545 Developments in Anthropological Theory (3)

- 03.552 Quantitative and Qualitative Analysis (3)
- Two courses chosen from the following group:

Comparison and Analysis

- 03.210 Roots of Racism and Interracial Harmony /S 3:2 (3)
- 03.335 Culture and Personality (3)
- 03.342 Women and Work (3)
- 03.430 Magic, Witchcraft, and Religion (3)
- 03.431 Taboos (3)
- 03.531 Archaeology (3)
- 03.532 Cultural Change (3)
- 03.534 Economic Anthropology (3)
- 03.535 Ethnicity (3)
- 03.537 Language and Culture (3)

- Two courses, one from each of the following two groups:

Methods and Techniques

- 03.531 Archaeology: Artifact Analysis (3)
- 03.550 Ethnographic Research Methods (3)
- 03.553 Data Banking and Multivariate Techniques (3)
- 03.560 Summer Field School: Archaeology (3-9)

Practical and Applied

- 03.392 Cooperative Education Field Experience (3)
- 03.491 Internship in Anthropology (3-9)
- 03.542 Principles of Applied Anthropology (3)
- 03.543 Anthropology of Development (3)
- 03.544 Topics in Applied Anthropology (3)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Anthropology

Requirements

- 03.201 Cultural Anthropology /S (3)
- 03.202 Human Origins /N (3)
- One course from the following:
 - 03.225 Language and Human Experience /A 1:2 (3)
 - 03.331 Human Variation (3)
 - 03.334 Modern Archaeology (3)
 - 03.336 Social Structure (3)
- Three additional courses chosen at the 300 level or higher in consultation with a member of the departmental faculty.

Minor in Applied Anthropology

Requirements

- 03.201 Cultural Anthropology /S (3)
 - 03.542 Principles of Applied Anthropology (3)
- 03.542 is to be taken after at least six credit hours of anthropology have been completed.
- An additional twelve credit hours, at least nine of which must be at the 300 level or above, chosen from at least two subfields (socio-cultural, linguistic, archaeological, physical) in consultation with an adviser.

B.A./M.A. in Anthropology or Applied Anthropology

This program is primarily designed for transfer students who enter The American University in their junior year with substantial background in anthropology. It allows eligible students to complete the B.A. in Anthropology and the M.A. in Anthropology or Applied Anthropology after three years (six semesters) of uninterrupted study. Students with interest in applied anthropology or in a field related to anthropology (e.g. law, social services, government service, public health) will find this degree combination especially appropriate for preprofessional training.

Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate majors ordinarily apply for admission to the combined B.A./M.A. program at the end of their junior year. Admission decisions follow the procedures used to evaluate graduate applicants to the M.A. programs. Interest in this degree combination should be discussed with members of the faculty before formal application is begun.

Requirements

- All requirements for the B.A. degree with a major in Anthropology.
- All requirements for the M.A. degree with a major in either Anthropology or Applied Anthropology.

Students may use six credit hours of course work in anthropology to satisfy the requirements for both degrees.

M.A. in Anthropology

Admission to the Program

A 3.00 undergraduate grade-point average; two academic letters of reference; an example of the applicant's work, e.g., a term paper; and GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.
- One written examination in general anthropological theory and method (03.006).
- A thesis or two substantial research papers prepared in conjunction with advanced courses or research seminars, and approved by a committee of two members of the faculty. Final approval by the chair is required.

Course Requirements

- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.797 Master's Thesis Seminar (6) (thesis option)

Note: A student from another discipline may take a comprehensive examination in anthropology (03.022 Cultural Analysis) with a minimum of nine semester hours in anthropology.

M.A. in Applied Anthropology

Admission to the Program

A 3.00 undergraduate grade-point average; two academic letters of reference; an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.
- One written examination stressing the relevance of general anthropology to applied work (03.008).
- A thesis or two substantial research papers prepared in conjunction with advanced courses or research seminars, and approved by a committee of two members of the faculty. Final approval by the chair is required.

Course Requirements

- 03.532 Culture Change (3)
- 03.542 Principles of Applied Anthropology (3)
- 03.543 Anthropology of Development (3)
or
03.544 Topics in Applied Anthropology (3)
- 03.631 Proseminar: Cultural and Social Anthropology (3)

- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
or
• 03.637 Proseminar: Anthropological Linguistics (3)
- 03.691 Internship in Anthropology (3) or other three hours application of anthropological method and theory to practical problem-solving in the student's area of interest.
- 03.797 Master's Thesis Seminar (6) (thesis option)

Ph.D. in Anthropology

Admission to the Program

A 3.00 undergraduate grade-point average; two academic letters of reference; an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work.
- Two languages or one language and statistical or computer analysis as a tool of research.
- Four comprehensive examinations.

Examinations include 03.006 (Anthropological Method and Theory); one in a main field (03.016 Ethnological Methods, 03.017 Archaeological Methods, or 03.018 Linguistic Methods); one in an approved elective subfield of specialization (03.020); and one in an approved area of concentration (03.021). At least two examinations must be written and at least one must be oral.

- A dissertation and an oral defense.

Field work is a component of dissertation research except in very unusual cases.

Students entering the program with an M.A. degree in anthropology earned elsewhere must complete thirty credit hours of course work and twelve credit hours of dissertation credit in residence.

Course Requirements

- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.799 Doctoral Dissertation Seminar (12)

Note: A student in another discipline may take a comprehensive examination in anthropology with a minimum of twelve credit hours in anthropology. Anthropology students may take one outside examination if they take twelve hours of course work in a second approved discipline.

Art

Chair Michael T. Graham

Full-Time Faculty

Professor N. Broude, I. Eno (Emeritus), M.D. Garrard, A.S. Keck (University Emeritus), L. Penay, B.L. Summerford (University Professor Emeritus), T. Turak

Associate Professor L. Brabanski (Emeritus), M. Graham, M. Hirano, D. Kimes, M. Oxman, C. Ravenal

Assistant Professor R.M. Haynie, C.A. Story

Research Faculty

Associate Research Professor M. Richman

The Department of Art encompasses the creative activities of the fine arts (painting, sculpture, and printmaking), the artistic applications of design, and the theoretical and historical concerns of art history. These complementary programs function together, so that the student gains not only depth of knowledge in a chosen specialty but also the breadth of experience that yields understanding of artistic traditions and values.

A faculty of exhibiting artists and practicing designers and strong studio programs focused on gaining facility with materials and familiarity with visual concepts make the art department, in effect, an art school within a university. An equally strong art history faculty and curriculum give the Art History major a solid grounding in art as a historical and humanistic discipline in an environment that provides continuing contact with art in the making. Because of our location in one of the major art capitals of the world and the university's proximity to Washington's great museums and art collections, all programs afford students the advantage of immediate experience with art masterpieces of the past and present.

An important objective of the department is to prepare students for careers in the arts. Given the sound theoretical and technical bases of our programs, our graduates find that a wealth of individual career opportunities awaits them. Depending on the specific discipline pursued they have become teachers, critics, graphic designers, illustrators, and exhibition design specialists. In addition, careers in museum and gallery work, teaching, visual resources, and historic preservation are available to qualified art historians.

B.A. in Studio Art

Admission to the Program

Departmental approval after satisfactory completion (C or better) of twelve credit hours of studio.

Tracks

Painting, Sculpture, and Printmaking.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-four credit hours with grades of C or better.
- Twenty-four of the last thirty credit hours in the major program must be taken at this university (eighteen hours must be in studio, six may be in art history).

Course Requirements

- 05.100 Art: The Studio Experience /A 1:1 (3)
- 05.205 Drawing: Responding to Vision /A 1:2 (3)
- 05.210 Painting: Color, Form, Expression /A 1:2 (3)
- 05.360 Drawing (6)
- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- Eighteen credit hours including twelve credit hours from one and six credit hours from another of the following areas of concentration:

Painting

05.320 Creative Painting

Sculpture

05.340 Sculpture

Printmaking

05.364 Printmaking: Woodcut and Surface Print (3)

05.520 Techniques of Etching

- Nine additional credit hours from the following:
05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)
05.320 Creative Painting
05.322 Special Studies in Painting (3)
05.340 Sculpture
05.344 Ceramics
05.360 Drawing
05.364 Printmaking: Woodcut and Surface Print (3)
05.520 Techniques of Etching
05.560 Drawing
- Six additional hours of art history.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.F.A. in Fine Arts

Admission to the Program

Admission is subject to the approval of a portfolio, evaluation of the academic record, and a personal interview. Approval of admission depends entirely on faculty action resulting from this review. Consideration for B.F.A. is permitted only after eighteen credit hours or three semesters of studio work at The American University but before beginning the senior year.

Tracks

Painting, Sculpture, and Printmaking.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of seventy-two credit hours with grades of C or better.

Course Requirements

- 05.100 Art: The Studio Experience /A 1:1 (3)
- 05.205 Drawing: Responding to Vision /A 1:2 (3)
- 05.210 Painting: Color, Form, Expression /A 1:2 (3)
- 05.360 Drawing (6)
- 05.560 Drawing (3)
- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- Twenty-one credit hours from one of the following concentrations:

Painting

05.320 Creative Painting

Sculpture

05.340 Sculpture

Printmaking

05.364 Printmaking: Woodcut and Surface Print (3)

05.520 Techniques of Etching

- Twelve credit hours in one other concentration, or six credit hours in each of the other two concentrations.

- Nine additional hours from the following:

05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)

05.320 Creative Painting

05.322 Special Studies in Painting (3)

05.340 Sculpture

05.344 Ceramics

05.360 Drawing

Drawing

05.364 Printmaking: Woodcut and Surface Print (3)

05.520 Techniques of Etching

05.560 Drawing

- Six additional credit hours of art history.

Note: Students who contemplate completing a double major will not be able to complete a B.F.A. program within the 120 semester hour limit.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Design**Admission to the Program**

Departmental approval after satisfactory completion (C or better) of twelve credit hours of design.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.

- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-four credit hours with grades of C or better.

Twenty-four of the last thirty credit hours in the major program must be taken at this university, of which eighteen hours must be in design and six in studio or art history.

Course Requirements

- 05.220 Design: Color Theory and Practice /A 1:2 (3)
- 05.225 Design: Form, Space, Vision /A 1:2 (3)
- 05.348 Design Techniques I (3)
- 05.350 Typography: Theory and Practice (3)
- 05.351 Design Techniques II (3)
- 05.353 Typography: Color and Design (3)
- 05.356 Advanced Design I (3)
- 05.357 Advanced Design II (3)
- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- 17.430 Photography: The Lens and Image (3)
- Six credit hours from the following:
 - 05.310 The History of Graphic Design (3)
 - 05.354 Production for Graphic Designers (3)
 - 05.359 Illustration (3)
 - 05.392 Cooperative Education Field Experience (3-9)
 - 05.396 Selected Topics (Nonrecurring) (appropriate topic)
 - 05.491 Internship (3) (with approval of department)
- Nine credit hours in studio from the following:
 - 05.100 Art: The Studio Experience /A 1:1 (3)
 - 05.205 Drawing: Responding to Vision /A 1:2 (3)
 - 05.210 Painting: Color, Form, Expression /A 1:2 (3)
 - 05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)
 - 05.320 Creative Painting (3)
 - 05.340 Sculpture (2-3)
 - 05.360 Drawing (3)
 - 05.364 Printmaking: Woodcut and Surface Print (3)
- Six additional credit hours in art history.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Art History

Admission to the Program

Departmental approval after satisfactory completion (C or better) of twelve credit hours of art history.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-four credit hours with grades of C or better.
- Twenty-four of the last thirty credit hours in the major program must be taken at this university, eighteen hours of which must be in art history and six in related fields or studio.

Course Requirements

- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- 07.500 Approaches to Art History (3)
- Three credit hours in each of four periods:

Ancient

- 07.302 Roman Art (3)
- 07.307 Women and Art (3)
- 07.396 Selected Topics (Nonrecurring) (appropriate topic)
- 07.520 Seminar in Art History (3) (appropriate topic)
- 07.596 Selected Topics (Nonrecurring) (appropriate topic)

Medieval

- 07.303 Medieval Art (3)
- 07.307 Women and Art (3)
- 07.308 Gothic Art (3)
- 07.396 Selected Topics (Nonrecurring) (appropriate topic)
- 07.520 Seminar in Art History (3) (appropriate topic)
- 07.596 Selected Topics (Nonrecurring) (appropriate topic)

Renaissance

- 07.205 Art of the Renaissance /A 2:2 (3)

- 07.307 Women and Art (3)
- 07.316 The Architecture of Humanism 1400-1700 (3)
- 07.396 Selected Topics (Nonrecurring) (appropriate topic)
- 07.501 Baroque Painting (3)
- 07.513 Renaissance Painting: Giotto to Bellini (3)
- 07.514 Renaissance Painting: Leonardo to Caravaggio (3)
- 07.520 Seminar in Art History (3) (appropriate topic)
- 07.596 Selected Topics (Nonrecurring) (appropriate topic)

Modern

- 07.210 Modern Art: Nineteenth and Twentieth Centuries /A 1:2 (3)
- 07.305 Aspects of American Art (3)
- 07.307 Women and Art (3)
- 07.318 Nineteenth- and Twentieth-Century Architecture (3)
- 07.331 Painting and Sculpture in the United States until 1900 (3)
- 07.332 Painting and Sculpture in the United States: 1900 to the Present (3)
- 07.333 American Architecture until 1870 (3)
- 07.334 American Architecture: 1870 to the Present (3)
- 07.396 Selected Topics (appropriate topic)
- 07.508 Painting: Rococo through Impressionism (3)
- 07.510 Painting: Post-Impressionism to Expressionism (3)
- 07.511 Painting: Cubism to the Present (3)
- 07.520 Seminar in Art History (appropriate topic)
- 07.596 Selected Topics (appropriate topic)

- Fifteen additional credit hours in art history.

At least two of the art history courses taken to fulfill requirements must be at the 500 level.

- Six hours in studio from the following:
 - 05.100 Art: The Studio Experience /A 1:1 (3)
 - 05.205 Drawing: Responding to Vision /A 1:2 (3)
 - 05.210 Painting: Color, Form, Expression /A 1:2 (3)
 - 05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)
 - 05.320 Creative Painting (3)
 - 05.340 Sculpture (3)
 - 05.360 Drawing (3)
- Twelve credit hours at the 300 level or above from one of the following fields: American studies, anthropology, history, literature, music, and philosophy.

Course selections must be related to the major and to each other and must be approved by the faculty.

Note: Students contemplating graduate study in art history are advised to attain a reading knowledge of French, Italian, or German to the intermediate level (or equivalent of twelve credit hours at the college level.)

Special Opportunities

A major program track in American Art/American Studies is possible. It requires at least a twelve-semester-hour

concentration in American art and a twelve-semester-hour related course requirement in American studies. Internships in local agencies, museums, galleries, and libraries are permitted with departmental approval, but are limited to three credit hours unless taken as electives.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Art History

Requirements

- 07.100 European Art: From Cave to Cathedral /A 2:1 (3)
- 07.101 European Art: Renaissance to Present (3)
- Twelve additional credit hours at the 300 level or above, arranged and approved in advance with an art history adviser.

Minor in Design

Requirements

- 05.220 Design: Color Theory and Practice /A 1:2 (3)
- 05.225 Design: Form, Space, Vision /A 1:2 (3)
- 05.348 Design Techniques I (3)
- 05.351 Design Techniques II (3)
- Nine credit hours from the following:
 - 05.310 The History of Graphic Design (3)
 - 05.350 Typography: Theory and Practice (3)
 - 05.353 Typography: Color and Design (3)
 - 05.354 Production for Graphic Designers (3)
 - 05.356 Advanced Design I (3)
 - 05.359 Illustration (3)

Minor in Studio Art

Requirements for the minor in Studio Art are dependent upon the student's interest and choice of concentration. Areas of concentration may include painting, printmaking, sculpture, drawing, or ceramics. The Studio Art minor requires twenty-one credit hours arranged and approved in advance through consultation with a studio faculty adviser. The adviser and student select the appropriate sequence of courses from the following list:

- 05.100 Art: The Studio Experience /A 1:1 (3)
- 05.205 Drawing: Responding to Vision /A 1:2 (3)
- 05.210 Painting: Color, Form, Expression /A 1:2 (3)

- 05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3)
- 05.320 Creative Painting (2-3)
- 05.340 Sculpture (2-3)
- 05.344 Ceramics (3)
- 05.359 Illustration (3)
- 05.360 Drawing (3)
- 05.364 Printmaking: Woodcut and Surface (3)
- 05.520 Techniques of Etching (3)

M.A. in Art History

Admission to the Program

Admission is considered for students who hold a Bachelor of Arts degree from a regionally accredited institution.

Two letters of recommendation are required if the undergraduate degree was not earned in the department.

Students whose records indicate a strong aptitude for graduate study, but whose undergraduate major was not in art history, will be required to complete at least twenty-four credit hours of art history before being considered for admission to the graduate program.

At the department's discretion, students who have completed at least eighteen credit hours of art history may be considered for admission and, if admitted, may complete the six-semester-hour deficiency during the course of their M.A. program.

Part-time students are advised that an M.A., which takes at least three semesters of full-time study, cannot be completed at night only or in summer only.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work. (A special thirty-six-semester-hour program with a structured museum internship option is available to qualified students).
- Tool of research: intermediate level French, German, or Italian, or reading knowledge of one of these languages demonstrated through examination.
- Advancement to candidacy after completion of eighteen credit hours with an average of 3.00 or better and satisfactory completion of the tool requirement.
- Two written examinations.

One examination in 07.003 History of Western Art (Greek to Modern) and one in the student's specialized field of art history: 07.079 Medieval Art, 07.010 Renaissance Art, 07.011 Baroque and Rococo Art, 07.012 Nineteenth and Twentieth-Century Art, 07.020 Art in the United States, or 07.021 Architecture.

- Two substantial research papers in lieu of a thesis. One paper must originate in a graduate seminar.

One paper must be in the student's field of specialization.

Course Requirements

- Nine credit hours in the field of specialization.
- Six credit hours in master's research seminars, or independent study (07.792 and 07.793), of which three hours must be in the field of specialization (see examinations above for fields of specialization).
- 07.500 Approaches to Art History (3), if an equivalent course was not taken at the undergraduate level.
- Remaining courses distributed according to individual program and needs.

Note: About six additional credit hours of course work are required if museum training or more than one internship is selected.

Curriculum Models

Curriculum Model I: General History of Western Art. A discipline-oriented approach for students who intend to continue for a Ph.D. elsewhere or to teach at the high school or junior college level. The M.A. program would emphasize a range of art history courses with a conventional period specialization.

Curriculum Model II: Applied Research in Art History. A practical-applications approach with intensive training in research and writing for students who seek special training for museum work, architectural survey, historic preservation research, etc. The M.A. program could include related course work in history, culture, American studies, etc., as well as internships and field experience.

Curriculum Model III: Concepts of Art and Art History. A problem-oriented approach aimed at depth of understanding of art and methods of art history, for students interested in connoisseurship and critical analysis, generally with an emphasis in painting. The M.A. program would include fine arts courses such as 05.533 Materials and Techniques of Painting (3) (for which some studio experience is required) and 05.700 Criticism of Painting (3), as well as independent reading courses in criticism, theory, or historiography.

Special Opportunities

Individually structured programs in museum training and internships in local museums, galleries, agencies, or libraries, such as the National Museum of American Art, the American Institute of Architects, and the Library of Congress, are available for qualified students with departmental approval.

M.F.A. in Painting, Sculpture, or Printmaking

Although the department's orientation is very much toward painting, it is possible for a limited number of students with special permission to do the M.F.A. program in sculpture or in printmaking (woodcut and etching). Students should consult the department on the status of the

sculpture and printmaking majors before submitting an application for admission.

Admission to the Program

Admission is considered for students who hold Bachelor of Arts (with fine arts major) or Bachelor of Fine Arts degrees from a regionally accredited institution.

Two letters of recommendation are required if the undergraduate degree was not earned in the department.

Under special circumstances, applicants without B.A. or B.F.A. degrees or without a major in fine arts, but with outstanding artistic or professional qualifications, may be considered for admission.

Each applicant must submit a portfolio of ten drawings (including figure studies) and four to six paintings (or prints or sculpture if relevant) to the department's Admission Review Committee. Slides or photographs may be submitted in lieu of original work, if shipping is difficult, but original drawings must be submitted in every case. A résumé of the applicant's background (academic and professional) should be included in the portfolio. Portfolios should be sent directly to the Department of Art. The Department of Art cannot be liable for loss or damage or for any transportation or mailing expense.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work.

Additional studio courses (or art history) may be required to attain maturity and proficiency and to complete satisfactorily the comprehensives and thesis. The number and kinds of additional courses will be stipulated by the admissions committee at the time of admission.

- One written examination:

05.010 Theory and Techniques of Painting, 05.011 Theory and Techniques of Sculpture, or 05.012 Theory and Techniques of Printmaking.

- A series of original works of art in the student's field of concentration (painting, sculpture, or printmaking) executed independently by the student in consultation with a thesis committee of two or three faculty members. Written and photographic documentation of approved thesis is also required.

Course Requirements

- 05.560 Drawing (9)
- 05.700 Criticism of Painting (3)
- 05.792 Art Laboratory: Painting (3)
- 05.797 Master's Thesis Seminar (9)
- Six additional credit hours from the following:
 - 05.520 Techniques of Etching (3)
 - 05.533 Materials and Techniques of Painting (3)
 - 05.560 Drawing (3)
 - 05.792 Art Laboratory: Painting (3)
 - 05.793 Art Laboratory: Sculpture (3)

05.795 Art Laboratory: Printmaking (3)

Art History Courses

- Six credit hours in art history, which must be in painting if thesis field is painting. Distribution for printmaking and sculpture must be approved by faculty.

Audio Technology

Director Romeo A. Segnan

Full-Time Faculty See faculty listed under the Department of Physics in this publication.

The B.S. in Audio Technology is a multidisciplinary program of the Department of Physics taught in cooperation with the School of Communication, the Department of Performing Arts, and Audio-Visual Services. This unique program concentrates on the technology of sound; it is broad-based and includes overview courses in mass media, music theory, and theatre production. Such a program is the only route to the professionally recognized title of "audio engineer." With this training, the student is prepared for a career as a recording engineer, a radio or television audio technologist, an electronic maintenance or design engineer, or a concert-hall and theatre sound reinforcement engineer.

B.S. in Audio Technology

Admission to the Program

The Department of Physics counsels freshmen and transfer students. Formal admission to the program requires a 2.00 grade-point average and the approval of the department undergraduate adviser.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of sixty-one credit hours with grades of C or better.

Course Requirements

- 41.170 Precalculus Mathematics /N (3)
- 50.201 Fundamentals of Audio Technology /N (3)
- 50.202 Audio Technology Laboratory (1)
- 50.230 Acoustics (3)
- 50.310 Sound Synthesis I (3)
- 50.312 Analog Electronics I (3)
- 50.313 Analog Electronics II (3)
- 50.320 Sound Synthesis II (3)
- 50.322 Analog Electronics Laboratory I (2)
- 50.323 Analog Electronics Laboratory II (2)
- 50.340 Electronic Troubleshooting (3)
- 50.384 T.V. Studio Operations (3)
- 50.410 Sound Studio Techniques and Practice (3)
- 50.420 Advanced Sound-Studio Techniques (3)
- 50.500 Digital Electronics (4)
- 51.105 College Physics I /N 5:1 (3)
- 51.111 General Physics Laboratory I /N 5:1 (1)
- 51.205 College Physics II /N 5:2 (3)
- 51.211 General Physics Laboratory II /N 5:2 (1)
- 67.126 Music Theory for Nonmajors /A (3)
- One of the following:
 - 17.205 Understanding Mass Media /S 4:2 (3)
 - 17.201 Introduction to Interpersonal Communication (3)
 - 17.333 Fundamentals of TV and VTR (3)
 - 17.346 Audio-Visual Communication (3)
- One of the following:
 - 67.260 Principles of Production I (3)
 - 67.362 Lighting Design (3)

Special Opportunities

Internships at active professional recording studios, radio and television stations, and theatres. Employers of audio engineers include business, government, educational institutions, and the entertainment industry.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Audio Technology

The minor in Audio Technology is designed for students who do not aspire to become audio engineers, but who do need a good working knowledge of audio techniques. Students wishing to minor in Audio Technology should consult the academic advisers in the Department of Physics.

Course Requirements

- 50.201 Fundamentals of Audio Technology /N (3)
- 50.202 Audio Technology Laboratory (1)
- 50.384 TV Studio Operations (3)
- 50.410 Sound Studio Techniques and Practice (3)
- 50.420 Advanced Sound Studio Techniques (3)
- 51.105 College Physics I /N 5:1 (3)
- 51.111 General Physics Laboratory I /N 5:1 (1)
- 51.205 College Physics II /N 5:2 (3)
- 51.211 General Physics Laboratory II /N 5:2 (1)
- 17.333 Fundamentals of TV and VTR (3) or one of the following:
 - 17.346 Audio-Visual Communication (3)
 - 17.430 Photography: The Lens and Image (3)
 - 17.435 Introduction to Studio Television (3)

Biology

Chair David C. Culver

Full-Time Faculty

Professor W.C. Banta, E.J. Breyere (Emeritus), S.O. Burhoe (Emeritus), D.C. Culver, M.C. Sager (Emerita)

Associate Professor R.J. Chinnis, B.J. Clarke, R.H. Fox, S.C. Grebe, C.R. Wrathall

Assistant Professor I. Chow, D.W. Fong, K.A. Goddard

The Department of Biology provides basic training in the life sciences, emphasizing modern advances in areas of molecular genetics, embryology and development, and evolutionary biology. Faculty members are involved in conducting research in developmental biology, evolutionary biology, neurobiology, microbiology, ecology, oceanography, immunology, and molecular biology. Students are encouraged to participate in research projects at all levels.

The department offers programs leading to the B.S. as well as graduate programs leading to the M.A. and M.S. degrees. Besides training for a career of graduate study in biology, bachelor's students are prepared for medical, dental, and veterinary schools. The Department of Biology offers courses which combine traditional with training necessary in today's professional marketplace. Curriculums are designed to allow maximum individual choice of course selection after departmental requirements have been met.

Our students have the opportunity to visit, observe, and intern in some of the nation's most prestigious biological research centers, including NIH and NIMH.

Two minors are offered, one in biology, and one in environmental science. The environmental science minor is especially designed for students who are not majoring in the sciences but wish to have rigorous training in the area of environmental science.

In cooperation with the School of Education, the department also offers a special curriculum which leads to certification for teaching biology at the high-school level. Students who have selected this specialization must con-

sult the teacher education adviser in the biology department during the second semester of the freshman year. The Department of Biology is accredited for teacher education by two national accrediting organizations: National Council for the Accreditation of Teacher Education (NCATE) and National Association of State Directors of Teacher Education and Certification (NASDTEC).

Graduate Degrees and Specialties

The Department of Biology offers programs leading to the M.A. and M.S. degrees. Degree programs allow for concentrations in General Biology, Developmental Biology, and Evolutionary Biology, and an interdisciplinary program in Environmental Toxicology (M.S. only). Comprehensive examinations are given in these subjects.

The research and teaching facilities in the Department of Biology provide adequate instrumentation and equipment: the Department of Biology shares with the Department of Chemistry a modern animal facility and an instrumentation laboratory. Graduate research may be carried out in the department or in the professional laboratories of such federal agencies as Walter Reed Institute of Pathology, National Institutes of Health, National Institute of Education, U.S. Naval Hospital, and others.

Biology graduate courses are uniquely designed to introduce students to topics of current biological import, to encourage research interest, and provide insights into career opportunities for life scientists. Both the major graduate programs, Developmental Biology and Evolutionary Biology, emphasize modern technology and techniques in the laboratory and in the field.

The American University is a member of the Consortium of Universities of the Washington Metropolitan Area. The resources of several fine institutions are pooled to enable students to have the best of many educational opportunities. Degree candidates at one university may also take courses at other consortium universities for residence credit.

Experiential Learning Opportunities

In addition to on-campus courses that provide laboratory and field experiences, students may also participate in a wide array of activities off campus in living-learning programs. Students may also be placed in government policy-making or regulatory agencies and private-sector laboratories as interns or on independent study projects.

Preprofessional medical students in the health sciences visit hospitals and clinics in the area and have an active speaker program run by their fraternity.

B.S. in Biology

Admission to the Program

The department counsels freshmen and transfer students. Admission is through formal declaration of major.

University Requirements

- A total of 120 credit hours.
- Six semester hours of College Writing.

- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of seventy-four credit hours with grades of C or better.

Course Requirements

Departmental Requirements

- 09.110 General Biology I /N 5:1 (3)
- 09.111 General Biology I Laboratory /N 5:1 (1)
- 09.210 General Biology II /N 5:2 (3)
- 09.211 General Biology II Laboratory /N 5:2 (1)
- 09.300 Cell Biology Lecture (3)
- 09.301 Cell Biology Laboratory (1)
- 09.356 Genetics (4)
- 09.357 Genetics Laboratory (1)
- 09.499 Senior Seminar in Biology (3)
- Twenty credits from the following or other approved courses at the 300 level or above:
 - 09.404 Plant Structure and Function (4)
 - 09.410 Invertebrate Zoology Lecture (3)
 - 09.411 Invertebrate Zoology Laboratory (1)
 - 09.423 Introduction to Ecology (3)
 - 09.424 Introduction to Ecology Laboratory (1)
 - 09.435 Vertebrate Physiology (3)
 - 09.436 Vertebrate Physiology Laboratory (2)
 - 09.440 Microbiology (3)
 - 09.441 Microbiology Laboratory (2)
 - 09.550 Developmental Biology (3)
 - 09.551 Developmental Biology Laboratory (2)
 - 09.556 Evolutionary Mechanisms (3)

Related Requirements

- 15.110 General Chemistry I /N 5:1 (3)
- 15.111 General Chemistry I Laboratory /N 5:1 (1)
- 15.210 General Chemistry II /N 5:2 (3)
- 15.211 General Chemistry II Laboratory /N 5:2 (1)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- 51.110 University Physics I /N 5:1 (3)
- 51.111 General Physics Laboratory I /N 5:1 (1)
- 51.210 University Physics II /N 5:2 (3)
- 51.211 General Physics Laboratory II /N 5:2 (1)
- 41.221 Calculus I /N (4)

- 41.222 Calculus II /N (4)
or
42.202 Basic Statistics /N (4)

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter of this publication for information.

Pre-engineering

For the many students studying in the fields of mathematics, physics, chemistry, biology, and distributed sciences who are potential engineers, The American University has established cooperative five-year programs with the School of Engineering and Applied Science, Washington University, St. Louis, Missouri, and with the College of Engineering, University of Maryland.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Biology

Requirements

- 09.110 General Biology I /N 5:1 (3)
- 09.111 General Biology I Laboratory /N 5:1 (1)
- 09.210 General Biology II /N 5:2 (3)
- 09.211 General Biology II Laboratory /N 5:2 (1)
- 09.300 Cell Biology Lecture (3)
- 09.301 Cell Biology Laboratory (1)
- 15.110 General Chemistry I /N 5:1 (3)
- 15.210 General Chemistry II /N 5:2 (3)
- One from the following:
 - 09.440 Microbiology (3)
 - 09.441 Microbiology Laboratory (2)
 - 09.356 Genetics (4)
 - 09.357 Genetics Laboratory (1)
 - 09.404 Plant Structure and Function (4)
 - 09.410 Invertebrate Zoology Lecture (2)
 - 09.411 Invertebrate Zoology Laboratory (2)
 - 09.423 Introduction to Ecology (3)
 - 09.424 Introduction to Ecology Laboratory (1)
 - 09.550 Developmental Biology (3)
 - 09.551 Developmental Biology Laboratory (2)

Minor in Environmental Science

Many nonscience majors want to have a strong background in environmental sciences to enable them to un-

derstand the scientific principles of environmental dynamics in relation to international affairs, corporate responsibility, federal and state laws, and the process of public administration. The Minor in Environmental Science provides a rigorous curriculum in the natural sciences while enabling students to acquire the skills and information to evaluate scientific studies and problems with critical insight.

- A total of twenty-seven hours.

Course Requirements

- 09.110 General Biology I /N 5:1 (3)
- 09.111 General Biology I Laboratory /N 5:1 (1)
- 09.210 General Biology II /N 5:2 (3)
- 09.211 General Biology II Laboratory /N 5:2 (1)
- 15.110 General Chemistry I /N 5:1 (3)
- 15.111 General Chemistry I Laboratory /N 5:1 (1)
- One of the following .200-level courses:
09.240 Oceanography /N 5:2 (3)
15.220 Environmental Chemistry /N 5:2 (3)
15.230 Earth Sciences /N 5:2 (3)
- 09.404 Plant Structure and Function (4)
- 09.410 Invertebrate Zoology (3)
- 09.411 Invertebrate Zoology Laboratory (1)
- 09.423 Ecology (3)
- 09.424 Ecology Laboratory (1)

M.A. in Biology

This is a nonthesis degree that may serve as a terminal degree for students in various life-science professions, as additional training for students seeking admission to medical school, or as an intermediate degree for those intending to pursue further graduate study.

Admission to the Program

Applicants must have earned a bachelor's degree from an accredited college or university. Admission is based on evaluation of undergraduate and previous graduate work by the departmental graduate studies committee and two letters of recommendation. In addition, both the General Test and the Advanced Test in Biology of the Graduate Record Examination must be taken prior to admission.

Degree and Major Requirements

- A total of thirty-two credit hours of approved graduate work.
- Comprehensive examination in general biology, developmental biology, or evolutionary biology.
- An examination in computer programing, or the use of an approved statistical software package as a tool of research.

- Directed literature research (09.790) resulting in a significant paper reviewing some aspect of biological science; the subject of this review paper is selected by the student subject to approval by the graduate studies committee and the chair of the department.
- An oral report presented in the form of a public seminar on the topic of the review paper.

Course Requirements

General Biology

- 09.550 Developmental Biology (3)
- 09.560 Techniques in Cell Biology (3)
- 09.565 Techniques in Ecological Research (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.661 Techniques of Molecular Biology (3)
- 09.664 Techniques of Evolutionary Research (3)
- 09.700 Graduate Seminar (1) for a minimum of 2 hours
- 09.790 Biology Literature Research (1-6) for a minimum of 6 hours
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Concentration in Developmental Biology

- 09.550 Developmental Biology (3)
- 09.560 Techniques in Cell Biology (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.661 Techniques of Molecular Biology (3)
- 09.700 Graduate Seminar (1) for a minimum of 2 hours
- 09.790 Biology Literature Research (1-6) for a minimum of 6 hours
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

- An additional six hours of graduate courses from the following list, or other courses by permission of the department:

- 09.505 Introduction to Neurobiology
- 09.526 Comparative Mammalian Embryology (3)
- 09.551 Developmental Biology Laboratory (2)
- 09.574 Topics in Genetics (1-4)
- 09.577 Topics in Development (1-4)
- 15.564 Biochemistry III (3)

Concentration in Evolutionary Biology

- 09.550 Developmental Biology (3)
- 09.565 Techniques of Ecological Research (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.664 Techniques of Evolutionary Research (3)
- 09.700 Graduate Seminar (1) for a minimum of 2 hours
- 09.790 Biology Literature Research (1-6) for a minimum of 6 hours
- 42.514 Statistical Methods (3)

- An additional nine hours of graduate courses from the following list, or other courses by permission of the department:
09.571 Topics in Zoology (1-4)
09.572 Topics in Ecology (1-4)
09.574 Topics in Genetics (1-4)
15.560 Biochemistry I (3)
15.561 Biochemistry II (3)
41.501 Probability (3)
42.502 Introduction to Mathematical Statistics (3)
(in lieu of 42.514)

M.S. in Biology

This is a research degree that may serve as an intermediate degree for those intending to pursue further graduate study in evolutionary biology and developmental biology.

Admission to the Program

Applicants must have earned a bachelor's degree from an accredited college or university. Admission is based on evaluation of undergraduate and previous graduate work by the departmental graduate studies committee and two letters of recommendation. In addition, both the General Test and the Advanced Test in Biology of the Graduate Record Examination must be taken prior to admission.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.
- Comprehensive examination in either developmental biology or evolutionary biology.
- An examination in computer programming or in the use of an approved statistical software package as a tool of research.
- Advancement to candidacy, which requires the acceptance of a research proposal by the student's adviser, the graduate studies committee, and the chair of the department at least one semester prior to the oral defense of the thesis.
- Completion, oral defense, and the acceptance of thesis by the thesis committee, chair of the department, and the university.

Course Requirements

Concentration in Developmental Biology

- 09.550 Developmental Biology (3)
- 09.560 Techniques of Cell Biology (3)
- 09.661 Techniques of Molecular Biology (3)
- 09.700 Graduate Seminar (1) for a minimum of 2 hours
- 09.797 Master's Thesis Research (1-6) for a minimum of 6 hours
- 15.560 Biochemistry I (3)

- 15.561 Biochemistry II (3)
- An additional seven hours of graduate courses from the following list, or other courses by permission of the department:
09.505 Introduction to Neurobiology (3)
09.526 Comparative Mammalian Embryology (3)
09.551 Developmental Biology Laboratory (2)
09.574 Topics in Genetics (1-4)
09.577 Topics in Developmental Biology (1-4)
15.564 Biochemistry III (3)
42.514 Statistical Methods (3)

Concentration in Evolutionary Biology

- 09.565 Techniques of Ecological Research (3)
- 09.566 Evolutionary Mechanisms (3)
- 09.664 Techniques of Evolutionary Research (3)
- 09.700 Graduate Seminar (1) for a minimum of 2 hours
- 09.797 Master's Thesis Research (1-6) for a minimum of 6 hours
- 42.514 Statistical Methods (3)
- An additional ten hours of graduate courses from the following list, or other courses by permission of the department:
09.571 Topics in Zoology (1-4)
09.572 Topics in Ecology (1-4)
09.574 Topics in Genetics (1-4)
41.501 Probability (3)
42.502 Introduction to Mathematical Statistics (3)
(in lieu of 42.514)
15.560 Biochemistry I (3)
15.561 Biochemistry II (3)

Special Opportunities

Teaching Fellowships, Helminge Fellowship, Burhoe Fellowship.

M.S. in Interdisciplinary Studies: Environmental Toxicology

Admission to the Program

Results of the positive evaluation by the appropriate departmental graduate studies committee. Two letters of recommendation are required.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work.
- Tool of research: statistics. (Course work taken to satisfy the tool-of-research requirement will not be counted towards the thirty-six hours necessary for the degree.)
- One comprehensive examination in environmental toxicology (09.007).

- Master's thesis: the subject matter of the paper will be determined by the student and the guidance committee.
- Thesis defense.

Course Requirements

Core Courses

It is recommended that these core courses be taken before other courses.

- 09.511 Animals in Research (3)
 - 09.526 Comparative Mammalian Embryology (3)
 - 09.660 Mammalian Physiology Pathology (3)
 - 09.680 Introduction to Toxic Materials (3)
 - 15.504 Principles of Biochemistry (3)
 - 15.680 Chemical Mutagens and Carcinogens (3)
 - 15.682 Toxicological Testing (3)
 - 09.797 Master's Thesis Research (6)
or
15.797 Master's Thesis Research (6)
 - 09.700 Graduate Seminar (1)
 - Seven hours of electives from chemistry or biology.
- Independent study is also available.

Special Opportunities

Helminge Fellowship; Burhoe Award ; graduate teaching fellowships. Off-campus courses and degree programs are available for all graduate students in biology. Students should consult their graduate adviser for information.

Chemistry

Chair James E. Girard

Full-Time Faculty

Horace and May Isbell Chair in Natural Products Chemistry H.S. El Khadem

Professor M.H. Aldridge (Emerita), R.T. Foley (Emeritus), J.E. Girard, F.A.H. Rice (Emeritus), N.M. Roscher, P.F. Waters (Emeritus)

Associate Professor T.S. Cantrell, F.W. Carson, A.M. Cheh, N.S. Gordon

Assistant Professor S.J. Mazur

Research Faculty

Research Professor B.H. Alexander, H.S. Isbell, J. Kutina, A.H. Newman, L.T. Hughes

Chemistry is the science that deals with the composition of materials, their structures and properties, the transformations they undergo, and the energy changes that accompany these transformations. Areas of study include

general, organic, physical, analytical, and inorganic chemistry, as well as biochemistry, and earth science. Students are encouraged to participate in research projects at all levels.

Accredited by the American Chemical Society, the department offers programs leading to the B.S. as well as graduate programs leading to the M.S. and Ph.D. degrees in chemistry. Besides training for a career or graduate study in chemistry, bachelor's students are prepared for medical or dental school, engineering programs, and other careers where technical expertise is needed. The department provides a personal, congenial environment where students can develop and explore a flexible program of study designed to fulfill individual interests and needs.

Faculty members are involved in conducting research in analytical chemistry, biochemistry, inorganic chemistry, biotechnology, organic synthesis and physical biochemistry. Laboratory research projects are available in our own well-equipped modern building and also at many world-renowned research laboratories in the Washington, D.C., area with which the department maintains close liaison.

Affiliations

Research opportunities in the Washington area through internships, cooperative education work-study programs, and special arrangements are available at the following laboratories: Armed Forces Radiobiology Research Institute, Bureau of Mines, Food and Drug Administration, National Institute of Standards and Technology, National Institutes of Health, Naval Medical Research Institute, Naval Research Laboratory, Naval Surface Weapons Laboratory, U.S. Army Mobility Equipment Research and Development Command at Fort Belvoir, and the Walter Reed Army Institute of Research. Students who participate in these programs obtain experience with specialized equipment and interact with research scientists outside the university.

B.S. in Chemistry

Admission to the Program

The department counsels freshmen and transfer students, as well as declared chemistry majors. A 2.00 grade-point average on a 4.00 scale is necessary for admission to the program.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.

- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of sixty-five credit hours with grades of C or better.

Course Requirements

- 15.110 General Chemistry I /N 5:1 (3)
- 15.111 General Chemistry I Laboratory /N 5:1 (1)
- 15.210 General Chemistry II /N 5:2 (3)
- 15.211 General Chemistry II Laboratory /N 5:2 (1)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- 15.350 Quantitative Analysis (3)
- 15.351 Quantitative Analysis Laboratory (2)
- 15.410 Physical Chemistry I (3)
- 15.411 Physical Chemistry I Laboratory (2)
- 15.420 Physical Chemistry II (3)
- 15.421 Physical Chemistry II Laboratory (2)
- 15.460 Instrumental Analysis (3)
- 15.461 Instrumental Analysis Laboratory (2)
- 15.507 Chemical Literature (1)
- 15.550 Advanced Inorganic Chemistry (3)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 51.110 University Physics I /N 5:1 (3)
- 51.111 General Physics Laboratory I 5:1 (1)
- 51.210 University Physics II /N 5:2 (3)
- 51.211 General Physics Laboratory II 5:2 (1)
- At least three credit hours from the following:
15.490 Independent Study Project (1-6)
15.498 Departmental Honors: Senior Year (1-3)
15.499 Departmental Honors: Senior Year (1-3)
15.562 Biochemistry I Laboratory (2) and
15.563 Biochemistry II Laboratory (2)

Recommended Courses

- 15.200 Human Biochemistry /N 5:2 (3)
- 15.220 Environmental Chemistry /N 5:2 (3)
- 15.230 Earth Science /N 5:2 (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.562 Biochemistry I Laboratory (2)
- 15.563 Biochemistry II Laboratory (2)
- 15.564 Biochemistry III (3)
- 15.570 Computers in Chemistry (3)

Courses in biology and physics.

For graduate school preparation:

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)

- 15.522 Interpretation of Spectra (3)
- 15.546 Thermodynamics and Statistical Mechanics (3)
- 15.551 Topics in Inorganic Chemistry (3)

Medical school requirements include:

- 09.110 General Biology I /N 5:1 (3)
- 09.210 General Biology II /N 5:2 (3)
- 09.111 General Biology I Laboratory /N 5:1 (1)
- 09.211 General Biology II Laboratory /N 5:2 (1)

Also recommended for medical school preparation:

- 09.300 Cell Biology Lecture (3)
- 09.301 Cell Biology Laboratory (1)
- 09.330 Human Anatomy and Physiology I (3)
- 09.331 Human Anatomy and Physiology II (3)
- 09.332 Human Anatomy and Physiology I Laboratory (1)
- 09.333 Human Anatomy and Physiology II Laboratory (1)
- 09.440 Microbiology (3)
- 09.441 Microbiology Laboratory (2)
- 09.450 Foundations of Immunology (4)
- 09.501 Pathogenic Microbiology (3)
- 09.505 Introduction to Neurobiology (3)
- 09.506 Introduction to Medicine and Physical Diagnosis (3)
- 09.532 Medical Parasitology (4)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.562 Biochemistry I Laboratory (2)
- 15.563 Biochemistry II Laboratory (2)
- 15.564 Biochemistry III (3)

Other suggested electives include:

- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 42.202 Basic Statistics /N (3)
- 50.312 Analog Electronics I (3)
- 50.313 Analog Electronics II (3)
- 51.270 Basic Concepts in Modern Physics (3)
- 51.502 Classical Mechanics (4)
- 51.503 Electricity and Magnetism (3)
- 42.515 Regression (3)

Competence in German, French, or Russian through the intermediate level is expected. German is highly recommended because of its value in literature searching, which is taught in 15.507 Chemical Literature.

Special Opportunities

Milton Harris Prizes for entering Chemistry majors.

A cooperative work-study program involving several participating research organizations is available through the Department of Chemistry. The undergraduate student is expected to work full time for six months and study at the university for five months. Further details are available from the department office.

An undergraduate research program is available. Qualified junior and senior chemistry majors may conduct research under 15.390 or 15.490 Independent Study Project in Chemistry.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Chemistry

Requirements

- 15.110 General Chemistry I /N 5:1 (3)
- 15.111 General Chemistry I Laboratory /N 5:1 (1)
- 15.210 General Chemistry II /N 5:2 (3)
- 15.211 General Chemistry II Laboratory /N 5:2 (1)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- Eight credit hours chosen with the advice and approval of the department chair from the following:
 - 15.350 Quantitative Analysis (3)
 - 15.351 Quantitative Analysis Laboratory (2)
 - 15.410 Physical Chemistry I (3)
 - 15.411 Physical Chemistry I Laboratory (2)
 - 15.420 Physical Chemistry II (3)
 - 15.421 Physical Chemistry II Laboratory (2)
 - 15.460 Instrumental Analysis (3)
 - 15.461 Instrumental Analysis Laboratory (2)
 - 15.560 Biochemistry I (3)
 - 15.561 Biochemistry II (3)
 - 15.562 Biochemistry I Laboratory (2)
 - 15.563 Biochemistry II Laboratory (2)
 - 15.564 Biochemistry III (3)

Note Also: See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions. See the Interdepartmental Science section for information concerning requirements for the Bachelor of Science degree with a major in distributed science. See the Pre-engineering and Premedicine and Predentistry sections for descriptions of these programs.

M.S. in Chemistry

Admission to the Program

Applicants must have earned a degree equivalent to fulfilling the requirements for a B.S. in chemistry with a 3.00 cumulative grade-point average in chemistry from a college accredited by the American Chemical Society. All applications must be approved by the faculty of the Department of Chemistry.

Tracks

Analytical and Inorganic Chemistry (joint program), Biochemistry, Organic Chemistry, Physical Chemistry, and Chemical Toxicology.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.

The entire course of study must constitute a unified program with specific major and minor fields and a proposed curriculum approved by the department's graduate evaluation committee and the chair of the department one semester after the student enters the program.

- Advancement to candidacy on completion of twelve credit hours of graduate course work.
- An examination in German, French, Russian, computer programming, or statistics as a tool of research; students concentrating in chemical toxicology must take the examination in statistics.
- One comprehensive examination in the major field.
- A thesis of publishable quality based on original chemical laboratory research.

Course Requirements

- 15.507 Chemical Literature (1) (unless completed with a grade of B or better as an undergraduate)
- 15.550 Advanced Inorganic Chemistry (3) (unless completed with a grade of B or better as an undergraduate)
- 15.700 Seminar in Chemistry (1)
- 15.797 Master's Thesis Research (6)

Analytical and Inorganic Chemistry

- 15.522 Interpretation of Spectra (3)
- 15.551 Topics in Inorganic Chemistry (3)
- 15.610 Advanced Analytical Chemistry (3)

Biochemistry

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.564 Biochemistry III (3)

Organic Chemistry

- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Physical Chemistry

- 15.546 Thermodynamics and Statistical Mechanics (3)
- 15.551 Topics in Inorganic Chemistry (3)
- 15.600 Advanced Physical Chemistry I (3)
- 15.601 Advanced Physical Chemistry II (3)
- 15.642 Chemical Kinetics (3)

Chemical Toxicology

- 15.504 Principles of Biochemistry (3) (will not count toward the Ph.D. in Chemical Toxicology or Biochemistry)
- 15.680 Chemical Mutagens and Carcinogens (3)
- 15.682 Toxicology Testing (3)
- 09.660 Mammalian Physiology and Pathology (3)
- 09.680 Introduction to Toxic Materials (3)
- One course in pharmacology that meets the approval of the toxicology program coordinator.

Note Also: See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions. A Master of Science in Health/Fitness Management is listed under Physical Education, and Master of Science in Science Teaching (M.S.S.T.) is listed under Interdepartmental Science.

Ph.D. in Chemistry

Admission to the Program

Applicants must have earned either (1) a degree equivalent to fulfilling the requirements for a B.S. in chemistry with a 3.00 cumulative grade-point average in chemistry from a college accredited by the American Chemical Society or (2) an M.S. or M.A. in chemistry. All applications must be approved by the faculty of the Department of Chemistry.

Applicants to the Chemical Toxicology program who do not meet the above requirements may be admitted providing that acceptable plans to remedy deficiencies in their chemistry backgrounds are agreed upon.

Tracks

Analytical and Inorganic Chemistry (joint program), Biochemistry, Chemical Toxicology, Organic Chemistry, and Physical Chemistry.

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work.

The entire course of study must constitute a unified program with specific major and minor fields and a proposed curriculum approved by the department's graduate evaluation committee and the chair of the department one semester after the student enters the program. The course program consists of a set of core courses supplemented by electives determined in consultation with the student's adviser or the graduate evaluation committee.

sultation with the student's adviser or the graduate evaluation committee.

- Advancement to candidacy on completion of eighteen graduate credit hours in chemistry for students admitted with a B.S. or B.A. Students admitted from another university with an M.S. degree are required to file for advancement to candidacy on completing nine graduate credit hours in chemistry.
- Tool of research: examinations in two of the following: Russian, German, French, computer programming, or statistics. Those majoring in chemical toxicology must pass an examination in statistics as one of the tools.
- Four comprehensive examinations, two in the major field, one in the minor field, and one oral examination in defense of the dissertation proposal.
- A dissertation of publishable quality based on original chemical laboratory research and oral defense before the student's committee.

Course Requirements

- 15.507 Chemical Literature (1) (unless completed with a grade of B or better as an undergraduate)
- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.550 Advanced Inorganic Chemistry (3) (unless completed with a grade of B or better as an undergraduate)
- 15.600 Advanced Physical Chemistry I (3)
- 15.601 Advanced Physical Chemistry II (3)
- 15.610 Advanced Analytical Chemistry (3)
- 15.700 Seminar in Chemistry (2)
- 15.799 Doctoral Dissertation Research (12-24)
- Electives determined by the student's choice of track (below):
- *Analytical and Inorganic Chemistry*
- 15.504 Principles of Biochemistry (3)
or
15.560 Biochemistry I (3)
15.561 Biochemistry II (3)
15.564 Biochemistry III (3)
- 15.522 Interpretation of Spectra (3)
- 15.551 Topics in Inorganic Chemistry (3)
or
15.618 Topics in Analytical Chemistry (3)

Biochemistry

- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.564 Biochemistry III (3)
- 15.661 Enzyme Kinetics and Mechanisms (3)

Organic Chemistry

- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Physical Chemistry

- 15.504 Principles of Biochemistry (3)
or
15.560 Biochemistry I (3)
15.561 Biochemistry II (3)
15.564 Biochemistry III (3)
- 15.546 Statistical Mechanics (3)
- 15.642 Chemical Kinetics (3)
- 51.570 Introduction to Quantum Mechanics (3)
- 51.572 Atomic Physics (3)
or
51.574 Introduction to Solid State Physics (3)

Chemical Toxicology

- 15.501 Principles of Analytical Chemistry (3) (if needed)
- 15.502 Principles of Physical Chemistry (3) (if needed)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.564 Biochemistry III (3)
- 15.581 Principles of Toxicology (3)
or
09.680 Introduction to Toxic Materials (3)
- 15.680 Chemical Mutagens and Carcinogens (3)
- 15.682 Toxicological Testing (3)
- Pharmacology (3) (taken from the Consortium of Universities)

Note Also: See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions.

Assistant Professor P. Aufderheide, D.D. Bonafede, I.J. Burnett, F. Kaufman Levy, C.L. Olson, F.B. Phillippi, S.A. Roschwalb, A.E. Zelle

Instructor V.J. Glenn

The goal of the School of Communication is to develop liberally educated, professionally trained communicators who are equipped intellectually and ethically to convey the issues of contemporary society.

A strong liberal arts background is emphasized by the school. To ensure that communication majors attain this background, twenty-seven credit hours in related courses outside the field of communication are required.

All students intending to major in communication complete two core courses during their freshman and sophomore years. Understanding Mass Media, 17.205, is required during the freshman year and 17.200 Writing for Mass Communication, in the first semester of the sophomore year. As second-semester sophomores, Public Communication majors register for 17.201 Introduction to Interpersonal Communication, and Visual Media students enroll in 17.105 Visual Literacy.

Students begin one of the four professional programs in their junior year and take a series of carefully chosen skills courses. They also complete communication and media studies courses which examine the history, current issues, and future of communication and the media. (See "Courses of Instruction" for courses designated as media studies.) The ability to write correctly and clearly is stressed in all four professional programs.

The curriculum is carried out in the environment of Washington, D.C., the communications center of the world. The school draws heavily on the resources of the federal city for its adjunct faculty, for the material in its curriculum, and for involving students with Washington's communicators and communication facilities.

Prospective undergraduate students, including transfer students, are urged to write the School of Communication requesting a separate brochure on the undergraduate programs.

The four graduate programs, while more specialized, have the same general goals. A separate brochure on each is available.

School of Communication

Dean Sanford J. Ungar

Full-Time Faculty

Professor L.B. Anderson, E.L. Bliss, Jr. (Emeritus), G.P. Harnden, J.A. Hendrix, J.E. Orwant, R.T. Stout, R.E. Sutton, L.W. Wolfson, J.S. Yamauchi

Associate Professor J.C. Doolittle, J.S. Douglass, L.M. Furber, D.T. Moore, J.C. Seigle, R.A. Streitmatter

B.A. in Communication

Admission to the Program

Students are encouraged to declare the major in Communication by the end of the sophomore year and no earlier than the end of the freshman year. The School of Communication requires of all applicants, including transfer students, a minimum cumulative grade-point average (GPA) of 2.5 (on a 4.0 scale) to declare an undergraduate major in Communication.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.

- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Program Tracks

Broadcast Journalism, Print Journalism, Public Communication, and Visual Media.

Major Requirements

- A total of fifty-seven credit hours (sixty-six for Visual Media) with grades of C or better, including twenty-seven credit hours of related courses outside the field of communication.

Thirty credit hours within the field and a minimum of ninety credit hours outside the field of communication, to include sixty-five credit hours in liberal arts and sciences, are required for the programs. Forty-two hours within the field and a minimum of seventy-eight hours outside communication are required for the Visual Media program. The thirty or forty-two hours in the major field include all School of Communication courses: introductory courses, professional courses, media studies courses, internships, independent study, and independent reading courses. A grade of C or better is required for all communication and related course requirements.

Subject to the approval of an adviser, a maximum of twelve credit hours in communication transferred from another university may be substituted for required communication courses. Transfer students specializing in Broadcast Journalism, Print Journalism, and Public Communication are required to graduate with a total of ninety credit hours outside the field of communication. Transfer students specializing in Visual Media are required to graduate with a total of seventy-eight credit hours outside communication.

Course Requirements

Related Course Requirements

- Students complete the following courses outside the School of Communication: six credit hours in history, including at least three credit hours in American history; three credit hours in economics; three credit hours in government or international service; and a course from two of the following fields: anthropology, art (Visual Media majors only), biology, business, chemistry, foreign language, justice, literature, performing arts (Visual Media majors only), philosophy, physics, psychology, and sociology. Students also complete nine more credit hours in

courses at the 300 level chosen from one of the fields above.

American history and economics are required of all majors, but a minor in any related requirement field (except business) may be substituted for the remaining related requirements. If a student chooses a minor requiring less than twenty-one credit hours, additional courses from the disciplines listed above must be taken to fulfill the twenty-seven-semester-hour related requirement. This option also applies to a second major.

Broadcast Journalism

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- 17.320 Reporting (3)
- 17.333 Fundamentals of TV and VTR (3)
- 17.385 Broadcast Journalism I (3)
- 17.401 Legal Aspects of Communication (3)
- 17.428 Broadcast Journalism II (3)
- One communication and media studies course. (see Media Studies [MS] in the course listings in this publication.)
- Two of the following:
17.432 Television Field Reporting (3)
17.433 Broadcast Delivery (3)
17.491 Senior Internship (3)
or
17.392 Cooperative Education Field Experience (3)
17.521 Editorial Writing (3)
An additional communication and media studies course.

Print Journalism

- 17.205 Understanding Mass Media /S 4:2 (3)
- 17.200 Writing for Mass Communication (3)
- 17.320 Reporting (3)
- 17.322 Editorial Policies and Methods (3)
- 17.401 Legal Aspects of Communication (3)
- 17.425 Public Affairs Reporting (3)
- Two more courses in communication and media studies. (See Media Studies [MS] in the course listings in this publication.)
- Two of the following:
17.325 Feature Article Writing (3)
17.430 Basic Photography (3)
or
17.523 Intermediate Photography: Photojournalism (3)
17.491 Senior Internship (3)
or
17.392 Cooperative Education Field Experience (3)
17.521 Editorial Writing (3)

An additional communication and media studies course.

Public Communication

- 17.205 Understanding Mass Media /S 4:2 (3)
- 17.200 Writing for Mass Communication (3)
- 17.201 Introduction to Interpersonal Communication (3)
- 17.436 Public Relations (3)
- 17.437 Public Relations Media (3)
- 17.446 Public Relations Case Studies (3)
- 17.480 Public Communication Research (3)
- Three of the following:
 - 17.310 Public Speaking (3)
 - 17.325 Feature Article Writing (3)
 - 17.346 Audio Visual Communication (3)
 - 17.430 Basic Photography (3) spring only
 - 17.470 Organizational Communication (3)
 - 17.472 Nonverbal Communication (3)
 - 17.475 Group Communication Management (3)
- 17.491 Senior Internship (3)
- or
- 17.392 Cooperative Education Field Experience (3)
- 17.521 Editorial Writing (3)
- 17.532 Publication Layout and Design (3)
- 17.548 Speech Writing (3)

A communication and media studies course. (See Media Studies (MS) in the course listings in this publication.)

Visual Media

- 17.105 Visual Literacy /A 1:1 (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- 17.200 Writing for Mass Communication (3)
- 17.430 Basic Photography (3)
- 17.431 Basic Film and Audio Production (3)
- 17.482 Writing for Visual Media (3)
- Moving Image Sequence:
 - 17.434 Location Film and Video Production (3)
 - 17.435 Introduction to Studio Television (3)

Two of the Following:

- 17.456 Film I (3)
- 17.464 Studio Television I (3)
- 17.486 Video I (3)
- 17.487 Advanced Production (3)
- 17.561 Advanced Writing for TV/Film (3)

One additional course may be selected from the above list or from the photography courses or may be an internship or cooperative education training.

- Photography Sequence:

Minimum of three of the following:

- 17.523 Intermediate Photography: Fine Arts Photography (3)

- 17.523 Intermediate Photography: Photojournalism (3)
- 17.525 Advanced Photography (3)
- 17.529 Large Format and Studio Lighting (3)

- Three visual media studies courses from the following:
 - 17.511 History of Documentary Film (3)
 - 17.512 Television Documentary (3)
 - 17.513 Business of Film (3)
 - 17.514 Censorship in Media (3)
 - 17.516 Special Topics in Visual Media and Culture (3)
 - 17.527 History of Photography (3)
 - 17.558 History of Motion Pictures I (3)
 - 17.559 History of Motion Pictures II (3)
 - 17.599 New Communication Technology (3)
 - 23.375 Film and Literature (3)
 - 23.376 National Cinema (3)
 - 23.377 Popular Film Genres (3)
 - 23.378 Major Filmmakers (3)
 - 23.380 Independent Filmmakers (3)
 - 23.383 Film and Literature on World War II (3)

One communication and media studies course may be substituted for one of the visual media studies courses. (See Media Studies (MS) in the course listings in this publication.)

University Honors Program

The school's honors coordinator advises students in the University Honors Program regarding options in the major. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the major will, upon the school's recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Washington Journalism Semester

This special one-semester undergraduate program explores journalism as it exists and is practiced in Washington, D.C. The program studies the people, institutions, and issues of Washington journalism with guest speakers, field trips, and lectures, plus an internship and an elective course selected from regular offerings of the university. The program is open to students from colleges and universities across the country.

Admission to the Program

Requirements for admission to the program are: (a) at least a 2.50 grade-point average on a 4.00 scale; (b) either a journalism major or a liberal-arts major with some evidence of interest in journalism; and (c) second-semester sophomore standing or above. Selection is competitive.

Requirements

- 17.450 Washington Journalism Semester Seminar I (4)

- 17.451 Washington Journalism Semester Seminar II (4)
- 17.452 Washington Journalism Semester Internship (4)
- One additional course chosen from regular course offerings of the university.

B.A. in Foreign Language and Communication Media

Admission to the Program

Students are admitted to both the School of Communication and the Department of Language and Foreign Studies.

Program Tracks

French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- Prerequisite competency in the major language at the intermediate level.
- A total of fifty-four credit hours with grades of C or better.

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- Three communication and media studies courses from the School of Communication. (See Media Studies (MS) in the course listings in this publication.)
- Two courses related to any contemporary culture taught inside or outside the department.
- One of the following:
38.198 Language and Ethnicity (3)
38.199 International Vocabulary (3)

38.200 Language and Mind (3)

- Five professional courses in one of the four program tracks: Broadcast Journalism, Print Journalism, Public Communication, or Visual Media.
- Fifteen credit hours of courses in the major language at the 300 level or above taken in the Department of Language and Foreign Studies.

University Honors Program

The school's honors coordinator advises students in the University Honors Program regarding options in the major. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the major will, upon the school's recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Communication, Legal Institutions, Economics, and Government (CLEG)

An interdisciplinary major in Communication, Legal Institutions, Economics, and Government is available. Consult the School of Public Affairs section of this publication.

Minor in Communication

Designed for users and consumers of mass media, rather than for practitioners. Students wishing to minor in Mass Media Studies should consult the academic counselor in the School of Communication.

Requirements

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- Two of the following:
17.310 Public Speaking (3)
17.320 Reporting (3)
17.322 Editorial Policies and Methods (3)
17.325 Feature Article Writing (3)
17.346 Audio-Visual Communication (3)
17.430 Basic Photography (3)
17.431 Basic Film and Audio Production (3)
17.435 Introduction to Studio Television (3)
17.436 Public Relations
17.470 Organizational Communication (3)
17.472 Nonverbal Communication (3)
17.475 Group Communication Management (3)
17.521 Editorial Writing
17.532 Publication Layout and Design (3)
- Two of the the following:
17.401 Legal Aspects of Communication (3)
17.503 Mass Media and Society (3)
17.508 The Media and Government (3)

- 17.509 Politics and the Media (3)
- 17.511 History of Documentary Film (3)
- 17.512 Television Documentary (3)
- 17.513 Business of Film (3)
- 17.514 Censorship in Media (3)
- 17.527 History of Photography (3)
- 17.530 Broadcast Operations and Management (3)
- 17.531 International Communications Systems (3)
- 17.538 Contemporary Media Issues (3)
- 17.540 American Newspapers (3)
- 17.542 American Magazines (3)
- 17.545 Business and Economic Journalism (3)
- 17.558 History of Motion Pictures I (3)
- 17.559 History of Motion Pictures II (3)
- 17.596 Selected Topics (Nonrecurring) (3)
- 17.599 New Communication Technology (3)

Washington Journalism Institute for High School Students

This special two-week summer program teaches high-school students journalistic writing and editing, with emphasis on production of student newspapers, and introduces them to government in action in the nation's capital. Students are exposed to a wide range of cultural activities in Washington, D.C. as part of the program.

Students earn two credit hours of undergraduate credit that can be applied toward the requirements for an undergraduate degree.

Admission to the Program

Students are carefully selected on the basis of their grades, their writing ability, and the recommendation of their teachers.

Requirement

- 17.199 Washington Journalism Institute for High-School Students (2)

M.A. in Communication: Journalism and Public Affairs

Admission to the Program

An undergraduate grade-point average of 3.00 (on a 4.00 scale) for the last sixty credit hours of study and 3.00 in the major are required for admission. Previous professional or campus experience in communication is useful but is not required. However, all applicants are required to show evidence of professional commitment and career direction related to print or broadcast journalism.

Admission is for full-time students and for the fall semester only. The student is expected to complete this program (thirty credit hours) within a ten-month period.

Address initial inquiries to the Graduate Journalism Admissions Committee, School of Communication, The American University, Washington, D.C. 20016.

The school will send a brochure that contains both a more detailed description of the purpose and content of

the graduate program and an application form which includes a request for a 1,000-word essay on the applicant's reasons for wanting to pursue graduate study in journalism. The form and essay should be sent directly to the Graduate Journalism Admissions Committee, School of Communication, The American University. Along with the essay, applicants also should send directly to the committee, samples of published professional or college news writing or scripts or tapes, if available.

Potential applicants will also be sent a packet under separate cover from the university's admissions office. The packet contains additional information relating to graduate study generally at The American University, a second application form, and two reference forms.

Interviews are not required but may be requested by the school. The program has a limited number of graduate fellowships and assistantships available each year.

Inquiries about financial aid other than fellowships and assistantships and general information relating to The American University should be addressed to the Office of Financial Aid.

Program Tracks

Broadcast Journalism and Print Journalism.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work in journalism. Students may seek permission of the program director to substitute for journalism courses three to six hours of graduate study in an area related to public affairs (500 level or above).
- Broadcast or print track.
- A grade-point average of 3.0 maintained during all work toward the degree.
- Continuous full-time registration.
- One comprehensive examination, 17.001 General Communication and Journalism.

Course Requirements

Broadcast Journalism

- 17.601 Legal Aspects of Communication (3) (see note 1 below)
- 17.624 Principles and Practice of Journalism (3) (see note 2 below)
- 17.632 Television Field Reporting (3)
- 17.710 Seminar in Public Affairs (3) (with a grade of B or better)
- 17.721 Broadcast News I (3)
- 17.722 Broadcast News II (3) (with a grade of B or better)
- 17.724 Reporting of Public Affairs (3)
- Up to twelve hours from the following, with approval of adviser:
 - 17.502 Investigative Reporting (3)
 - 17.503 Mass Media and Society (3)
 - 17.508 The Media and Government (3)

- 17.521 Editorial Writing (3)
- 17.530 Broadcast Operations and Management (3)
- 17.540 American Newspapers (3)
- 17.542 American Magazines (3)
- 17.545 Business and Economic Journalism (3)
- 17.596 Selected Topics (Nonrecurring) (3)
- 17.599 New Communication Technology (3)
- 17.633 Broadcast Delivery (3)
- 17.690 Independent Study Project in Communication (3)
- 17.691 Graduate Internship (3)

Three to six hours in an area of graduate study related to public affairs may be substituted for one or two journalism electives with the permission of the program director. Possible areas might include political science, public administration, history, economics, the range of social sciences.

Print Journalism

- 17.601 Legal Aspects of Communication (3) (see note 1 below)
- 17.621 Advanced Copy Editing (3) (see note 3 below)
- 17.624 Principles and Practice of Journalism (3) (see note 2 below)
- 17.636 Washington Reporting (3)
- 17.710 Seminar in Public Affairs (3) (with a grade of B or better)
- 17.720 Seminar in Journalism (3) (with a grade of B or better)
- 17.724 Reporting of Public Affairs (3)
- Up to twelve hours from the following with approval of adviser:
 - 17.502 Investigative Reporting (3)
 - 17.503 Mass Media and Society (3)
 - 17.508 The Media and Government (3)
 - 17.521 Editorial Writing (3)
 - 17.540 American Newspapers (3)
 - 17.542 American Magazines (3)
 - 17.545 Business and Economic Journalism (3)
 - 17.596 Selected Topics (Nonrecurring) (3)
 - 17.599 New Communication Technology (3)
 - 17.690 Independent Study Project in Communication (3)
 - 17.691 Graduate Internship (3)

Three to six hours in an area of graduate study related to public affairs may be substituted for one or two journalism electives with permission of the program director. Possible areas might include political science, public administration, history, economics, the range of social sciences, and international relations.

Course Requirement Notes

1. Students who have earned a B or better in a news media law course within five years of enrollment may petition to be exempted from 17.601 Legal Aspects of Communication.
2. Students with insufficient news writing and reporting experience or with insufficient familiarity with American journalism must take 17.624 Principles and Practice of Journalism before entering the pro-

gram. This course, usually offered in August, does not count for credit in the thirty credit hours required for the major.

3. Students with extensive professional editing experience may petition to be exempted from 17.621 Advanced Copy Editing.

Special Opportunities

The program draws heavily on the resources of Washington, D.C., for both professional field work and classroom study. Students are encouraged to take a professional internship.

M.A. in Film and Video

Offered jointly by the School of Communication and the Department of Literature.

Admission to the Program

An undergraduate grade-point average of 3.00 (on a 4.00 scale) for the last two years of study is required. Previous exposure to film study, film and video production, or script writing is not required, although all applicants are required to show evidence of professional commitment and career direction related to their program of study. Students without experience in photography and film or video production are required to take 17.630 and 17.631 prior to or at the beginning of the regular program. These courses do not count toward the thirty-three credit hours required for the degree.

Admission is not limited to full-time students, however students must be free to take the bulk of their course work during the day. Students will normally be expected to complete the program (thirty-three credit hours) within a twenty-four month period.

A graduate application packet and a graduate film and video program brochure are available on request. The brochure describes two letters of recommendation and a thousand-word statement of purpose required of all applicants to this program and provides a more detailed explanation of the purpose and content of the program. The statement of purpose should be sent to the committee of the master's program in film and video. The letters should be sent directly to the Office of Admissions, The American University, Washington, D.C. 20016.

Further inquiries should be addressed to the School of Communication, Graduate Film and Video Program.

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work.

Courses are selected from the following areas, with emphasis determined by the student's interest: film production; video production; film theory, history, and criticism; and script writing.

While a student may emphasize one of these areas in the design of an individual program, the program must include courses from all four areas. A student's pro-

gram may also include courses in related areas such as performing arts and photography.

- One comprehensive examination, 17.004 Film and Video.
- Six credit hours in thesis research (thesis option) or, in the case of students specializing in the areas of script writing or production, six hours involving an original creative work (nonthesis option). A grade of B or better is required in those courses taken for the thesis or nonthesis option.

Note also: Film and video courses in the School of Communication and in the Department of Literature.

M.A. in Economic Communication

Offered jointly by the School of Communication and the Department of Economics.

Admission to the Program

An undergraduate grade-point average of 3.00 (on a 4.00 scale) for the last sixty hours of study is required. Previous professional or academic experience in communication or economics is useful but not required. However, all applicants are required to show evidence of professional commitment.

Admission is for full-time and part-time students and for the fall or spring semesters.

A student will normally be expected to complete the thirty-six-hour program within a twenty-four-month period.

Address inquiries to the Director, Graduate Program in Economic Communication, National Center for Business and Economic Communication, The American University, Washington, D.C. 20016.

The center will send a brochure that contains both a more detailed description of the graduate program and an application form which includes a request for a thousand-word essay on the applicant's reasons for wanting to pursue graduate study. The form and essay should be sent directly to the center with samples of published professional or campus reporting if available.

Applicants will also be sent a separate application form from the Office of Graduate Affairs and Admissions which contains general admission information, an admission and financial award application, and two reference forms which should be returned directly to that office.

Additional inquiries about financial aid or general information about The American University should be addressed to the Office of Graduate Affairs and Admissions.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work and a 3.00 grade-point average in economics and communication courses.

- One comprehensive examination requiring a demonstration of proficiency in economics and communication.
- Nonthesis option: Three of the six hours of nonthesis option are taken in the form of a graduate internship, drawing on the professional opportunities in Washington. The remaining three hours of nonthesis option are earned in a seminar in economic communication, supervised jointly by faculty members of the Department of Economics and the School of Communication, in which a major work is produced: film, written report, or broadcast of a topic in economics.

Course Requirements

Prerequisite Courses

- 19.603 Introduction to Economic Theory (3)
- 17.624 Principles and Practice of Journalism (3)

These courses do not count toward the thirty-six hours required for the degree, and one or both of them may be waived for students with equivalent background.

Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.548 Economic Indicators (3)
- 17.724 Reporting of Public Affairs (3)
- 17.545 Business and Economic Journalism (3)
- 17.601 Legal Aspects of Communication (3)
- Two economics courses approved by the graduate program adviser.
- Two communication courses approved by the graduate program adviser.

M.A. in Communication: Public Communication

Admission to the Program

An undergraduate grade-point average of 3.00 (on a 4.00 scale) for the last 60 credit hours of study and 3.00 in the major are required for admission. The ability to speak and write English well is essential. Previous academic or professional work in public communication is not required, but all applicants must demonstrate a serious commitment to a career in this field.

Admission is open to both full-time and part-time students and is for the fall semester only. Part-time students are expected to take a minimum of two courses each semester and complete their program in two years. Full-time students are generally expected to complete the program in ten months.

Inquiries should be addressed to: Graduate Public Communication Program, School of Communication, The American University, Washington, DC 20016.

A graduate application packet and an informative brochure are available from the school on request. The bro-

chure provides a more detailed explanation of the program and describes the thousand-word statement of purpose that is required of all applicants. Two copies of the statement of purpose should be sent to the Graduate Public Communication Admission Committee.

Interviews are not required but may be recommended by the school. The program has a limited number of graduate teaching assistantships available each year. These are reserved for full-time students.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work in public communication and related fields. The required work in public communication comprises twenty-one credit hours. Students with insufficient background may be required to take 17.644 Public Communication Writing. They may also be required to take 17.624 Principles and Practices of Journalism before beginning the program. Credit gained in completion 17.624 does not count in fulfilling the thirty-hour requirement. Students who fail to obtain a grade of B or better in this course will not be permitted to continue in the program but may be encouraged to take nondegree work to qualify for readmission at some future time.
- A graduate project is required of all students. The project work must be focused in one of the following communication areas: Public Interest Communication; Corporate Public Relations; Government and Political Communication; and Arts Communication. The project should be selected to provide an important credential for future employment as well as a focus for learning. It should reflect the student's career direction within the broad field of public communication. Students must receive a grade of B or better on the project. This project, which fulfills the university research requirement, is in lieu of a thesis.
- One comprehensive examination, 17.003 Public Communication.

Course Requirements

- 17.640 Public Communication Principles (3)
- 17.642 Public Communication Management (3)
- 17.646 Public Communication Production (3)
- 17.735 Communication Theory (3) (with a grade of B or better)
- 17.738 Research Methods in Communication (3) (with a grade of B or better)
- 17.741 Communication Processes (3)
- 17.744 Public Communication Seminar (3) (with a grade of B or better)

Students may take from six to nine credit hours of approved work from courses that relate to their project area, including an internship. The courses may be taken in communication or in other fields such as sociology, business, performing arts, education, government, justice, international service, psychology, anthropology, art history, literature, economics, or statistics.

Students choosing corporate public relations should note that there are limited options in business administration electives. Please consult your adviser.

Computer Science and Information Systems

Chair Richard Holzsager

Full-Time Faculty

Professor R.A. Bassler (Emeritus), J. Blum (Emeritus), D.S. Crosby, M.W. Gray, L.H. Hattery (Emeritus), R.A. Holzsager, R.W. Jernigan, W.J. Kennevan (Emeritus), B.P. Korin, I.D. Welt, A. Wu

Associate Professor A.M. Barron, T.J. Bergin, I.L. Chang, F.W. Connolly, L.J. Crone, W.H. Gammon (Emeritus), M. Greene, A.J. La Salle, L.R. Medsker, J.J. Rooney, M.I. Rosenberg (Emeritus)

Assistant Professor E. Adams, S.D. Burd, C.S. Kang, C.M. McCreary, M. Owrang, A.H. Roberts,

Instructor J. Kautz

The Department of Computer Science and Information Systems combines the resources and knowledge of two disciplines that concentrate on different aspects of the computer and information revolution. This combination enables students to gain a broader view of these fields than would otherwise be possible.

The American University's Washington, D.C. location affords students access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment for students with a strong technological background.

Computer Science is the study of the theory and technology of computation itself. It is the science of information and of the structures that communicate, store, and process information. Whether one studies the machine (hardware) or the instructions fed to the machine (software), the fundamental concepts are similar.

The computer science program at The American University ensures a balanced presentation of the practical and theoretical aspects of computer science. The program provides students with a background which may form the basis for graduate study or for professional employment.

Information Systems is a professionally oriented area covering all aspects of the analysis, design, development, and maintenance of computerized information systems. As all types of organizations become dependent of automated information resources, demand grows for information systems professionals.

Our programs in this area provide opportunities for course work to meet each student's special interests by allowing major electives to be chosen from other units in the university. With the help of an adviser from the other unit, the student can choose related courses which meet his or her needs.

B.S. in Computer Science

This program is accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board.

Admission to the Program

Requires a 2.00 cumulative grade-point average and completion of 40.280, 40.281, 40.282, 41.221, and 41.222 with grades of C or better.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A minimum of seventy-three credit hours with grades of C or better.

Course Requirements

- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.282 Assembly-Language Programming (4)
- 40.330 Organization of Computer Systems (3)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programming Languages (3)
- 40.350 Introduction to Discrete Structures (3)
- 40.365 Introduction to Operating Systems (3)
- 40.382 Automata, Languages, and Computability (3)
- 41.221 Calculus I /N (4) and
- 41.222 Calculus II /N (4)
- 41.310 Linear Algebra (3)
- 42.202 Basic Statistics /N (4)
- At least five additional courses approved by the student's adviser from the following list:
 - 40.320 Introduction to File Design (3)
 - 40.345 Software Engineering (3)
 - 40.396 Selected Topics (Nonrecurring) (3)
 - 40.460 Introduction to Numerical Methods (3)
 - 40.510 Legal Issues in Computing (3)
 - 40.541 Computer Architecture (3)
 - 40.546 Introduction to Computer Networks (3)
 - 40.560 Microcomputer Architecture (3)
 - 40.565 Operating Systems (3)

- 40.566 Introduction to Compilers (3)
- 40.568 Artificial Intelligence (3)
- 40.570 Data Management Systems (3)
- 40.584 Computer Graphics (3)
- 40.596 Selected Topics (Nonrecurring) (3)
- 41.560 Numerical Analysis: Basic Problems (3)

- A two-semester sequence of laboratory science. Recommended sequence:

- 51.105 College Physics I /N 5:1 (3)
or
- 51.110 University Physics I /N 5:1 (3)
- 51.205 College Physics II /N 5:2 (3)
or
- 51.210 University Physics II /N 5:2 (3)
- 51.111 General Physics Laboratory I 5:1 (1)
- 51.211 General Physics Laboratory II 5:2 (1)

Students may enroll in chemistry or biology courses with a laboratory component as follows:

- 15.110 General Chemistry I /N 5:1 (3) and
 - 15.111 General Chemistry I Laboratory /N 5:1 (1)
 - 15.210 General Chemistry II /N 5:2 (3) and
 - 15.211 General Chemistry II Laboratory /N 5:2 (1)
 - or
 - 09.110 General Biology I /N 5:1 (3) and
 - 09.111 General Biology I Laboratory /N 5:1 (1)
 - 09.210 General Biology II /N 5:2 (3) and
 - 09.211 General Biology II Laboratory /N 5:2 (1)
- as approved by adviser.

- Two additional quantitative courses chosen with a computer science adviser's approval from mathematics, statistics, biology, chemistry, physics, psychology, accounting, and economics.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.S. in Computer Information Systems

This is a rigorous program designed to give students a thorough foundation in both the theoretical and practical aspects of information systems.

Admission to the Program

Formal admission to the program requires a 2.00 grade-point average and approval of the department.

University Requirements

- A total of 120 credit hours.
- Six hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation and one second-level course from each of the five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of seventy-one credit hours with grades of C or better.

Required Core Courses

- 55.210 Introduction to Computer Information Systems (3)
- 55.234 Programming Concepts I (3)
- 55.235 Programming Concepts II (3)
- 55.315 Human Factors in Computer Information Systems (3)
- 55.325 Computer Hardware and System Software (3)
- 55.440 Database Management in Computer Information Systems (3)
- 55.455 Introduction to Systems Analysis (3)
- 55.460 Applied Systems Design (3)
- 55.465 Documentation of Programs and Systems (3)
- 55.480 Senior Seminar in Computer Information Systems (3)
- 55.485 Senior Workshop in Computer Information Systems (3)

Required Analytical Skills Courses

- 14.240 Principles of Accounting I (3)
- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 41.211 Applied Calculus I /N (4)
or
41.221 Calculus I /N (4)
- 42.202 Basic Statistics /N (4)
- 55.432 Introduction to Simulation and Modeling (3)

Note that 19.100 and 19.200 fulfill the General Education requirement in the curricular area of Social Institutions and Behavior. Either 41.211 or 41.221 satisfies the College Mathematics requirement.

Applications Area

Two courses in an area of application of interest to the student to be approved by an academic adviser

(minimum six credit hours). The courses must reflect a substantive area in which the student can apply his or her knowledge of information systems. Examples of applications areas include but are not limited to the following: international development, scientific information systems, computer science, social-science research, communication, public administration, personnel management, business administration, and arts management.

Elective Courses

- Twelve credit hours from the following:
 - 40.282 Assembly-Language Programming (4)
 - 40.330 Organization of Computer Systems (3)
 - 40.336 Pascal and Elementary Data Structures (3)
 - 40.340 Data Structures and Algorithms (3)
 - 40.345 Software Engineering (3)
 - 40.365 Introduction to Operating Systems (3)
 - 40.510 Legal Issues in Computing (3)
 - 40.568 Artificial Intelligence (3)
 - 40.584 Computer Graphics (3)
 - 55.363 Microcomputer Applications in Computer Information Systems (3)
 - 55.390 Independent Reading in Computer Information Systems (1-3)
 - 55.392 Cooperative Education (3)
 - 55.450 Information Storage and Retrieval (3)
 - 55.490 Independent Study in Computer Application Systems (1-3)
 - 55.491 Internship (1-3)
 - 55.531 Computer Design and Comparative Systems (3)
 - 55.532 Advanced Programming Management (3)
 - 55.533 Concepts in Computer Communications (3)
- No more than three credit hours of Cooperative Education or Internship may be used to fulfill this requirement. No more than three credit hours of Independent Study or Independent Reading may be used to fulfill this requirement.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Computer Science

Requirements

- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.282 Assembly-Language Programming (4)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programming Languages (3)

- 41.211 Applied Calculus I /N (4)
or
41.221 Calculus I /N
- One additional course numbered 40.3xx or above.

B.S./M.S. in Computer Science

Admission to the Program

Admission is open to undergraduate computer science majors with a grade-point average of 3.2. Applicants must have completed 40.280, 40.281, 40.282, 40.340, and 40.341 by the end of the junior year.

Degree and Major Requirements

- A minimum of ninety-seven credit hours of course work.
- An approved tool of research.
- Comprehensive examination.
- Thesis option: Six hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis.

Nonthesis option: Six hours of independent research project, seminar, or other research courses approved by the department.

Course Requirements

- All of the requirements for the B.S. degree with a major in computer science.
- Six computer science courses at the 500 level or above (not including 40.520, 40.521, or 40.540).
- Six hours of course work to fulfill the thesis or nonthesis option.

B.S./M.S. in Mathematics and Computer Science

Admission to the Program

Admission is open to undergraduate mathematics majors with a grade-point average of 3.2. Applicants must have completed 40.280, 40.281, 40.282, 40.340, and 40.341 by the end of the junior year.

Degree and Major Requirements

- A total of eighty-nine credit hours of course work.
- An approved tool of research.
- Comprehensive examination.

- Thesis option: Six hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis.

Nonthesis option: Six hours of research courses as approved by the department.

Course Requirements

- All requirements for the B.S. in Mathematics
- 40.280 Introduction to Computer Science I /N(4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.282 Assembly-Language Programing (4)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programing Languages (3)
- Eighteen credit hours of computer science courses at the 500 level or above, including 40.540 but not 40.520 or 40.521.
- Six credit hours of course work to fulfill the thesis or nonthesis option.

B.S./M.S. in Information Systems

Admission to the Program

Admission is open to undergraduates in any field who have a 3.00 overall grade-point average at the time of admission and a 3.30 grade-point average in the thirty credit hours taken immediately prior to admission.

Requirements

- All requirements for the bachelor's degree.
- All requirements for the Master of Science in Information Systems.

Two courses, 55.511 Concepts in Systems and Information (3) and 55.515 Human Factors in Information Systems (3), may be applied to both degrees. Students must complete the necessary foundation requirements (finite mathematics, quantitative analysis for information systems, introduction to data processing, and a computer-language course) before taking 55.511 and 55.515, each of which must be completed with a grade of B or better.

University Honors Program

The departments honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

M.S. in Computer Science

Admission to the Program

Requires an adequate undergraduate preparation or experience in computer science. Students entering the program without the appropriate background will be expected to take certain undergraduate courses as prerequisite.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.
- Mathematics, statistics, French, German, or Russian as a tool of research.
- Comprehensive examination, 40.060.
- Thesis option: Six hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis.

Nonthesis option: Six hours of independent research project, seminar, or other research courses approved by the department.

Course Requirements

- 40.520 Algorithms and Data Structures (3) (or equivalent)
- 40.521 Design and Organization of Programming Languages (3) (or equivalent)
- 40.540 Computer System Organization and Programming (3)
- Three additional computer science courses at the 500 level or above.
- Two additional courses in computer science, mathematics, statistics, or a related field, as approved by the department chair.
- Six credit hours of course work to fulfill the thesis or nonthesis option.

Course selections are subject to advance approval by the student's adviser.

M.S. in Information Systems

Admission to the Program

Requires a bachelor's degree from an accredited college or university, the equivalent of 40.260 Introduction to Computing or 55.210 Introduction to Computer Information Systems, a semester of college mathematics, and ability to program in a structured higher level language, such as Cobol or Pascal.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work.

- Quantitative analysis as a tool of research.
- A comprehensive examination (see thesis and non-thesis options).
- Thesis option: 55.665 Analysis and Design Workshop (3), three to six credit hours in 55.797 Master's Thesis Seminar, and an oral comprehensive examination.

Non-thesis option: 55.665 Analysis and Design Workshop (3), 55.760 Information Systems Seminar (3), and a written comprehensive examination.

Course Requirements

- 55.511 Concepts in Systems and Information (3)
- 55.515 Human Factors in Information Systems (3)
- 55.560 Systems Analysis and Design (3)
- 55.660 Information Systems Design and Development (3)
- 55.662 Information Systems Management (3)
- 55.635 Workshop in Computer Systems Applications: Database Management Systems (3)
or
40.570 Data Management Systems (3)
- Four related courses approved by a faculty advisor.
- Six credits of thesis or non-thesis option.
Courses taken to satisfy tool of research and thesis or non-thesis option must be passed with a grade of B or better.

Graduate Certificate In Computer Systems Applications

Note: Not open to new students. See Certificate in Information Systems.

Admission to the Program

Open to students with a bachelor's degree.

Requirements

- Students must satisfy foundation requirements in (a) data processing and a programming language and (b) quantitative analysis for information systems.
- 55.511 Concepts in Systems and Information (3)
- 55.530 Real-Time Systems (3)
- Nine semester hours from:
55.531 Computer Design and Comparative Systems (3)
55.532 Advanced Programming Management (3)
55.533 Concepts in Computer Communication (3)
55.635 Workshops in Computer Systems Applications (3)

Graduate Certificate in Information Systems

Admission to the Program

Requires a bachelor's degree from an accredited college or university, the equivalent of 40.260 Introduction to Computing or 55.210 Introduction to Computer Information Systems, a semester of college mathematics, and ability to program in a structured higher-level language, such as Cobol or Pascal.

Requirements

- 55.511 Concepts in Systems and Information (3)
- 55.515 Human Factors in Information Systems (3)
- 55.560 Systems Analysis and Design (3)
- 55.606 Quantitative Analysis for Information Systems (3)
- 55.660 Information Systems Design and Development (3)

Course Electives

- 55.662 Information Systems Management (3)
or
55.635 Workshop in Database Management Systems (3)

M.S. in Statistical Computing

For a description of this program, see "Statistics" in this publication.

Economics

Chair Nancy S. Barrett

Full-Time Faculty

Professor N. Barrett, W.D. Bowles, T.F. Dernburg, J. Epstein, W. Hunsberger (Emeritus), R. Müller, L. Sawers, F. Tamagna (Emeritus), P.C. Thanh, H.M. Wachtel, A. Waterston (Emeritus), J.H. Weaver

Associate Professor I.E. Broder, R. Hahnel, J. Wilmoughby, J.D. Wisman, M. Hazilla

Assistant Professor R.A. Blecker, D. Figart, T. Husted, A. Isaac, M. Floro, F. Graham

Instructor J. Sheridan, G. Stevenson

The Department of Economics at The American University emphasizes economic studies that enable graduates to participate actively in the process of finding answers to the important economic questions that face our society and other nations of the world. Emphasis is placed on viewing economic problems in both their domestic and international contexts.

Our location in Washington, D.C., enables us to offer students employment and internships in several of the

world's most important economic institutions, including the World Bank; the International Monetary Fund; and the treasury, labor, and commerce departments. Many of our graduates are able to find policy-making positions in the public and private sectors of both the United States and other nations.

Because there is no consensus about the answers to economic problems, the Department of Economics has adopted a pluralistic approach to economics education that includes neoclassical and Keynesian economics, historical and institutional economics, and political economy. The neoclassical and Keynesian traditions form the core of economic theory that our majors are expected to master. Economic history, the history of economic thought, and economic methodology are part of our historical and institutional approach to the study of economics. Marxian economic theory, neo-Ricardian economic theory, and post-Keynesian economics form the basis for the theoretical approach which we call political economy. Courses in specialized fields of economics are usually taught from the perspective of more than one of these categories in economic theory.

Washington Semester in Economic Policy

This special one-semester program draws on the unique environment of Washington, D.C., to introduce students to governmental policy making as it relates to international and domestic economic policy through seminars, internships, and research. Students earn undergraduate credit which may be applied toward the requirements for a bachelor's degree.

Admission to the Program

The program is open to students of The American University and to students of affiliated institutions from across the country. Requirements for admission to the program are: (1) nomination by a Washington Semester faculty representative; (2) minimum 2.50 grade-point average on a 4.00 scale; (3) introductory courses in economics; and (4) at least second-semester sophomore standing at the time of participation.

Requirements

- 19.393 Washington Economic Policy Semester Seminar I (4)
- 19.394 Washington Economic Policy Semester Seminar II (4)
- 19.390 Independent Reading Course in Economics (4)
or
19.391 Washington Economic Policy Semester Internship (4)
- One course from the regular university evening offerings.

Undergraduate Programs

There are two economics majors: one in Economic Theory and the other in Economics. The Economic Theory major is a rigorous study of economic theory, econometrics, and quantitative skills and is designed to prepare the student for a research position or graduate work in economics. The Economics major combines economic theory with applied fields and is particularly designed to allow the student the flexibility of a double major with other departments in the College of Arts and Sciences, the School of International Service, the Kogod College of Business Administration, the School of Public Affairs and the School of Communication.

Admission to the Programs

The department counsels freshman and transfer students. Formal admission to the major requires a 2.00 grade-point average and approval of the department undergraduate adviser.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

B.A. in Economic Theory

Major Requirements

- A total of fifty-three credit hours with grades of C or better.

Course Requirements

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 19.306 Money and Banking (3)
- 19.310 Introduction to Econometrics (3)
- One of the following:
19.311 International Economics /S (3)
19.371 International Economics: Trade (3)
19.372 International Economics: Finance (3)
- One of the following:
19.308 History of Economic Development (3)

19.317 Political Economy (3)
19.320 History of Economic Ideas (3)

- 41.211 Applied Calculus I /N (4)
or
41.221 Calculus I /N (4)
- 40.260 Introduction to Computing /N (4)
or
40.280 Introduction to Computer Science I /N (4)
- Four courses from department offerings at the 300 level or above.

Of these four, no more than two courses (six credits) may be fulfilled using any combination of the following: Washington Economic Policy Semester, honors senior capstone course, and economics courses from American University Study Abroad programs. Independent study and reading courses require special permission from the undergraduate adviser. Internships and co-ops will *not* count toward this requirement.

- Of 19.311, 19.371, and 19.372, no more than two of these courses may be used toward the economics degree.
- Three courses from the 300 level or above selected from the following fields with not more than two courses in any field: anthropology, business, communication, government, history, international relations, justice, sociology, philosophy (but not religion), psychology, and mathematics (41.212, 41.222, and 40.281 apply toward this requirement).

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Economics

Major Requirements

- A total of forty-six credit hours with grades of C or better.

Course Requirements

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 42.202 Basic Statistics /N (4)
- Five courses from department offerings at the 300 level or above.

At least one course must be related to the economics of other countries or international economics. Students may take up to six credit hours using Washington Economic Policy Semester, economics courses from American University Study Abroad programs or the honors senior capstone course, independent reading and study courses require special permission of the undergraduate adviser. Internships and co-ops will *not* count toward this requirement.

- Five courses from the 300 level or above selected from the following fields, with no more than three courses from any one: anthropology, business administration, communication, government, history, international relations, philosophy (but not religion), psychology, justice, sociology, and mathematics (calculus and computing courses offered at the 200 level apply towards this requirement).
- Of 19.311, 19.371, and 19.372, no more than two of these courses may be used toward the economics degree.

Recommendations

- 41.211 Applied Calculus I /N (4)
- 41.212 Applied Calculus II /N (3)
- 19.310 Introduction to Econometrics (3)
- 19.306 Money and Banking (3)
- 19.311 International Economics /S (3)

Students interested in particular areas may take certain courses to develop a concentration:

Political Economy

- 19.302 Comparative Economic Systems (3)
- 19.317 Political Economy (3)
- 19.322 Marxist Economics (3)

Domestic Policy

- 19.304 Labor Economics (3)
- 19.306 Money and Banking (3)
- 19.309 Public Economics (3)
- 19.312 Industrial Organization (3)

International and Development

- 19.307 Political Economy of Economic Development (3)
- 19.308 History of Economic Development (3)
- 19.311 International Economics /S (3)
- 19.371 International Economics: Trade (3)
- 19.372 International Economics: Finance (3)

Special Opportunities

A chapter of Omicron Delta Epsilon, the economics honor society, is active on campus. Membership requires a 3.25 GPA overall and a 3.50 GPA in economics courses. See the undergraduate adviser for further eligibility requirements.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in

the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Economics

Requirements

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- Six additional credit hours in economics at the 300 level or above (not including independent study, Washington Semester courses, internships, or co-ops).

Graduate Programs

There are three master's programs in economics: M.A. in Economics, M.A. in Applied Economics, and M.A. in Development Banking. There is an interdisciplinary M.A. in Economic Communication with special requirements listed under that program description (See School of Communication in this publication). There is a Ph.D. in Economics with tracks in Economics and Political Economy.

Admission to the Master's Programs

Requires a bachelor's degree from an accredited college or university, at least a 3.00 cumulative grade-point average (on a 4.00 scale) in the undergraduate program, and two letters of recommendation. The Graduate Record Examination is recommended. Admission is not automatic for students who qualify and may be limited by programmatic constraints.

A student whose undergraduate background does not meet the standards for admission may be considered for admission after completing twelve credit hours of approved graduate course work in nondegree status with at least a 3.00 grade-point average. 19.500 Price Theory and 19.501 Income Theory must be taken within these twelve hours.

M.A. in Economics

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.

Course work includes nine hours of core requirements, at least six hours of course work within one field of concentration, fifteen hours of electives, including six hours of research. Prerequisite credit does not count toward the degree. All courses must be taken for grades (the pass/fail option is not permitted).

No more than forty percent of course work and no more than six hours of independent study or reading

courses (exclusive of thesis hours) may be taken with any one professor.

- Two comprehensive examinations: a theory examination based on 19.500 and 19.501 and a field examination based on courses in their field of specialization. Candidates are expected to take the theory examination before they have completed their first eighteen credit hours. Candidates are expected to take the field examination after passing their theory examination and before completing twenty-four credit hours. Students may take each comprehensive twice. Fields are listed under the Ph.D. program.
- Thesis or two nonthesis seminars or two independent research projects which have been approved as a nonthesis option, or one seminar and one independent research project, with a minimum grade of B.

Course Requirements

Prerequisite Courses

- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
(19.603 Introduction to Economic Theory (3) may be substituted for 19.300 and 19.301)
- 42.202 Basic Statistics /N (4)
- 41.211 Applied Calculus /N (4)

Waiver of these prerequisites may be granted for well-qualified persons with comparable prior education or experience. No graduate credit is given for these courses.

Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.522 Econometrics (3)
or
19.723 Econometric Methods (3) (42.502 prerequisite) [or an approved substitute]
- 19.500, 19.501, and 19.522 (or approved substitute) must be completed within the first twelve credit hours with grades of B or better.
- 19.521 Mathematical Economic Analysis (3) is recommended.
- At least six credit hours in a field of concentration.
- Fifteen credit hours including six hours in thesis or nonthesis seminars or independent research with grades of B or better.

M.A. in Applied Economics

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work.

Course work includes nine hours of core requirements, at least six hours of course work within one field of concentration, eighteen hours of electives, including six hours of research. Prerequisite credit does not count toward the degree. All courses must be taken for grades (not pass/fail).

No more than forty percent of course work and no more than six hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- One comprehensive examination in the student's field of specialization. Students are expected to make their first attempt at their field comprehensive before they have completed twenty-four credit hours. Two retakes are allowed. Fields are listed under the Ph.D. program.
- Research seminar or independent research with a grade of B or better is required.

Course Requirements

Prerequisite Courses

- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
(19.603 Introduction to Economic Theory (3) may be substituted for 19.300 and 19.301.)
- 42.202 Basic Statistics /N (4)
- 42.211 Applied Calculus /N (4)

Waiver of these prerequisites may be granted for well-qualified persons with comparable prior education or experience. No graduate credit is given for these courses.

Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.522 Econometrics (3)
or
19.723 Econometric Methods (3) (42.502 prerequisite) or an approved substitute
- At least six credit hours in a field of concentration.
- Eighteen credit hours in electives approved by the faculty adviser, including six credit hours of research seminar or independent research with grades of B or better. Students must maintain a B average in all graduate course work.

M.A. in Development Banking

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work.

Course work includes twenty-seven credit hours of core courses and nine credit hours in an area of con-

centration. Foundation requirement credit does not count toward the degree.

No more than forty percent of course work and no more than six hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- One of two areas of concentration.

Choice of concentration depends on the student's goals, location, interests, and, if applicable, the needs of the student's sponsoring organization. In certain cases, with the recommendation of the concerned faculty member and the approval of the program adviser, students may substitute a course from outside the concentration for one of their courses in an area. Students choose three courses from among those offered in the chosen area of concentration. At least one of the courses must be a workshop and one a research seminar.

- One comprehensive examination covering both core courses and those from the student's concentration area. Two retakes are allowed. Fields are listed under the Ph.D. program.

Students should consult the director during the semester before scheduling the comprehensive examination.

- Research projects in two 700-level seminars or independent study research projects, with prior approval of the program director.

Course Requirements

Foundation Requirements

- 19.306 Money and Banking (3)
- 14.603 Accounting Concepts and Applications (3)
- 19.603 Introduction to Economic Theory
or
- 19.300 Price Theory (3) and
- 19.301 Income Theory (3)
- 42.202 Basic Statistics /N (4)
or
- 19.310 Introduction to Econometrics (3)

Waiver of these foundation requirements may be granted for well-qualified persons.

Core Courses

- 13.605 Financial Management (3)
- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.510 Cost-Benefit and Planning (3)
- 19.522 Econometrics (3)
- 19.525 International Economics: Finance (3)
- 19.533 Development Banking (3)
- 19.560 Economic Development (3)
- 19.564 Developmental Finance (3)

Areas of Concentration

Development Lending

- 19.788 Seminar in Economic Development (3)
- 19.633 Development-Project Cycle (Workshop) (3)
- 19.634 Negotiating Development Loan Contracts (3)

Development Financing

- 13.665 Financial Statement Analysis (3)
- 19.531 Financial Markets (3)
- 19.524 International Economics: Trade (3)
- 19.784 Seminar in International Trade and Finance (3)
- 19.635 International Capital Markets Workshop (3)

Research

- Six credit hours in two 700-level seminars or independent study projects with approval of the program director. Seminars taken for the concentration area requirement may be used to satisfy the research requirement.

M.A. in Economic Communication

This degree program is offered jointly by the School of Communication and the Department of Economics.

For a description of the program, see the section for the School of Communication in this publication.

Ph.D. in Economics

Admission to the Program

Two letters of recommendation are required. In addition, the Graduate Record Examination general tests (verbal, math, analytical) are required; the GRE subject test in economics is recommended. Applicants who are not native speakers of English must submit the results of TOEFL (Test of English as a Foreign Language). In general, a B average for previous undergraduate work or a B+/A- average for previous graduate work, whichever is more recent, is the minimum required. (Most students admitted have higher grade averages.) As a rule, students are admitted for the fall semester only; application must be made by the previous February 1.

Tracks

Economics and Political Economy.

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work.

No more than forty percent of course work and no more than six hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- Tools of research:

19.504 Economic Thought (3)
 19.521 Mathematical Economic Analysis (3)
 or
 19.508 European Economic Development (3)

Economics track students must also take one of the following:

42.502 Introduction to Mathematical Statistics (3)
 19.723 Econometric Methods (3) [Prerequisite:
 42.502]
 19.724 Seminar in Econometrics (3)

Political economy track students must also take one of the following:

19.522 Econometrics (3)
 or
 19.723 Econometric Methods (3) (prerequisite:
 42.502)

Political economy track students must also take one of the following:

19.774 Seminar in Economic Thought (3)
 19.721 Advanced Mathematical Economic Analysis (3)
 19.724 Seminar in Econometrics (3)

- An oral qualifying examination in economic theory no later than one semester before the comprehensive examinations are taken. This examination is waived for students who have completed certain theory courses. See adviser for details.

- Four comprehensive examinations:

Economics track: Four comprehensive examinations are required: 19.01B, 19.01C, and comprehensive examinations in two elective fields.

Political Economy track: Four comprehensive examinations are required: 19.006, 19.06A, and comprehensive examinations in two elective fields.

Comprehensive Examination Fields: 19.01A Contemporary Economic Theory General (required of all M.A. students); 19.01B Contemporary Economic Theory: Price; 19.01C Contemporary Economic Theory: Income; 19.002 History of Economic Thought; 19.005, History of Economic Development; 19.006 Theory of Political Economy I; 19.06A Theory of Political Economy II; 19.007 Economic Growth and Development; 19.07A Economic Development Policy (not open to students in the Department of Economics); 19.008 Labor Economics; 19.009 International Economics; 19.011 Comparative Economic Systems and Soviet-type Economies; 19.013 Monetary Economics; 19.014 Public Finance and Fiscal Policy; 19.016 Mathematical Economics; 19.017 Econometrics; 19.018 Quantitative Methods in Economics (open only to M.A. candidates); and 19.019 Industrial Organization; 19.020 Development Banking. See adviser for specific course requirements for each comprehensive examination field.

- Dissertation and oral comprehensive.

The student obtains approval for the dissertation topic from an interested faculty member in the field who then becomes chair of the dissertation committee. This committee, especially the chair, supervises the preparation of the dissertation and reviews it when it is completed. An oral comprehensive examination on the dissertation proposal is given by the committee before its submission for approval. The dissertation seminar (19.799) is offered to assist students in the preparation of their proposals (the dissertation seminar 19.799 must be taken pass/fail.) After the completed dissertation is submitted to the committee, a final oral examination is held.

Special Opportunities

The Simon Naidel Dissertation Fellowship is awarded annually for the most promising dissertation proposal. The Simon Naidel Prize of one hundred dollars is awarded annually to the student who has written the most outstanding comprehensive examination, as judged by the faculty of the department.

Graduate Certificate in Applied Economics

Admission to the Program

Open to students with a bachelor's degree.

Course Requirements

Prerequisites

19.100 Macroeconomics /S 4:1 (3)
 19.200 Microeconomics /S 4:2 (3)
 19.300 Price Theory (3)
 19.301 Income Theory (3)
 42.202 Basic Statistics /N (4) (may be waived on the basis of previous education or experience)

Requirements

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.522 Econometrics (3)
- Twelve credit hours from the following:
 - 19.510 Cost-Benefit and Planning (3)
 - 19.521 Mathematical Economic Analysis (3)
 - 19.532 Monetary Theory and Policy (3)
 - 19.541 Public Economics I (3)
 - 19.544 Urban Political Economy Survey (3)
 - 19.551 Theory of International Trade and Multinational Corporations
 - 19.560 Economic Development (3)
 - 19.571 Labor Economics: Theory (3)

Other approved electives may be substituted.

School of Education

Acting Dean Myra Sadker

Full-Time Faculty

Professor S. Burr (Emeritus), C.A. Gross (Emeritus), B.A. Hodinko, F. Holliday (Emeritus), F. Jacobs, P.D. Leedy (Emeritus), N.J. Long, D. Sadker, M. Sadker, S.L. Smith

Associate Professor L. Clark, A.S. Ferren, F.E. Huber (Emeritus), C.E. Messersmith, D.D. Miller (Emeritus), R. Ralph

Assistant Professor J. Mantanzo, E. Smith,

Research Faculty

Research Associate Professor S. Denbo

The School of Education at The American University conducts rigorous and innovative teacher training programs as well as a variety of research activities which focus on both national and international educational issues. Both graduate and undergraduate students have opportunities to acquire directed career training in research and teaching through internships in educationally oriented national associations, to receive early and continuous contact with children in a wide variety of public- and private-school settings, or to work in renowned university-related schools for students who are learning disabled or emotionally disturbed. The limited enrollment and selective admissions criteria allow the school to emphasize early and sustained child contact with study and supervision under master teachers in curriculums especially tailored to the student's individual career goals.

Undergraduates in the School of Education may major in Elementary Education, or take a sequence of courses leading to certification in secondary education. On graduation, they are eligible for teacher certification in most states. A minor in Special Education is offered. Combined B.A./M.Ed. programs in elementary or secondary education and special education (learning disabilities or emotional disturbance) are available.

Undergraduates who wish to gain valuable experience in nonteaching educational settings may explore professional careers in education associations, local and federal government agencies, publishing, education for the handicapped, and related fields. This may be done through the Washington Internship in Education. Both the teacher preparation programs and the Washington Internship in Education program benefit from the rich resources of the Washington area, where the headquarters of many national education organizations, the education agencies of the federal government, and several urban and suburban school systems are located.

The Faculty of Community Studies of the School of Education offers a Certificate in Community Development. See the listing under Community Studies in this publication.

Students who wish to pursue graduate studies may select from several programs. The special education program for the emotionally disturbed has won the American Association of Colleges for Teacher Education (AACTE) award

as one of the outstanding programs in the United States. The graduate program in learning disabilities emphasizes a close and continuing relationship with local schools, practicum experience under master teachers, innovative teaching methodology, and practical working experience with learning-disabled students, primary through adult. A Master of Arts in Teaching (M.A.T.) program enables liberal-arts undergraduates to continue course work in their academic discipline as well as in education courses relevant to secondary-school teaching. An M.A. in Elementary Education provides liberal-arts undergraduates with a program of study pertinent to teaching in elementary schools. Graduate programs are also offered in educational administration, student development in higher education, and international education. The school awards both master's and doctoral degrees.

B.A. in Elementary Education

Admission to the Program

Admission to the university does not automatically admit one to a program in teacher education.

Continuous Selection Criteria

1) Students desiring admission must enroll concurrently in the beginning of a sequence of professional education courses: 21.200 Schools and Society /S (3), 21.320 Psychology of Education (3), 21.321 Field Observation (1), and 21.330 Speech and Generic Teaching Methods (3). Enrollment in these precedes formal application for a teacher-education program. Elementary Education majors normally enroll in these courses during the sophomore year, while those planning to teach in secondary schools must enroll not later than the fall semester of the junior year.

2) Students submit their applications to the School of Education for admission to a teacher-education program. Application forms are available at the School of Education. Admission requirements at this stage are (a) a cumulative grade-point average of 2.70 or better, (b) letters of recommendation by faculty, and (c) recommendation by the student's academic adviser. Students must be admitted to the teacher-education program prior to enrollment in the elementary methods courses.

3) To remain in a teacher-education program, a student must maintain a cumulative grade-point average of 2.70 or better and receive satisfactory evaluations on methods and student-teaching field placements. In order to be permitted to enroll in 21.599 Student Teaching, students must receive a positive evaluation from faculty supervisors. Evaluation of field performance may involve videotaping of classroom lessons. Students will do student teaching in the metropolitan area, in either Washington, D.C.; Montgomery County, Maryland; Fairfax County, Virginia; Arlington County, Virginia; or a combination of these.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.

- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.
- Consult with an adviser from the School of Education as early as possible to discuss the coordination of general-education requirements with certification requirements.

Major Requirements

- A total of fifty-eight credit hours of major course requirements with grades of C or better and forty to forty-four credit hours of general course requirements.
- A 2.70 cumulative grade-point average and satisfactory performance evaluations. (See Admission to the Program above.)

General Course Requirements

Note: Students should meet with their school of education advisers for specific information concerning fulfillment of these requirements. Students must comply with current education curriculum requirements.

- 41.150 Finite Mathematics (3)
- Three additional credit hours in mathematics or statistics and probability.
- Six credit hours in literature.
- Three credit hours in music.
- Three credit hours in art.
- Three credit hours in health and nutrition.
- Three credit hours in health and fitness.
- Six credit hours in history including three in U.S. history.
- Three credit hours in the biological sciences.
- Three credit hours in the physical sciences.

Major Course Requirements

- 21.200 Schools and Society /S 4:2 (3)
- 21.250 Mathematics for Elementary School Teachers (3)
- 21.319 Children's Literature: Multicultural and International Approaches (3)
- 21.320 Psychology of Education (3)

- 21.321 Field Experience: Observation and Analysis (1)
- 21.330 Speech and Generic Teaching Methods (3)
- 21.371 Theories of Reading (3)
- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.541 Foundations of Special Education for Exceptional Children (3)
or
21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- 21.552 The Teaching of Mathematics in Elementary Education (2)
- 21.553 The Teaching of Language Arts in Elementary Education (2)
- 21.554 The Teaching of Social Studies in Elementary Education (2)
- 21.555 The Teaching of Reading in Elementary Education (3)
- 21.556 The Teaching of Science in Elementary Education (3)
- 21.599 Student Teaching (8-15)
- Two of the following courses:
21.212 Methodology of Sign Language /A (3)
21.315 Educational Issues and Approaches in Gifted Education (3)
21.325 Global and Multicultural Education (3)
21.372 Methods and Practicum in Early Childhood Development (2)
21.389 Sexism in School and Society: National and International Perspectives /S (3)
21.390 Independent Reading Course in Education (1-6)
21.402 Methods of Teaching Children with Learning Disabilities (3)
21.490 Independent Study Project in Education (1-6)
21.491 Internship in Education (6-9)
21.519 Computers in Education (3)
67.450 Children's Theatre/Creative Dramatics (3)
57.250 Child Psychology (3)

Other courses approved by an elementary education adviser, the director of the undergraduate program, or the dean of the School of Education.

Note: Completion of this or a similar program is required to meet most state certification requirements in elementary education. The professional aspects of the program have been carefully designed, but graduation does not assure one a position as a teacher. The American University does not license one to teach in any state; such certifications are issued only by a state government agency. Students are responsible for selecting courses to obtain certification in their chosen states and the District of Columbia. Certification requirements should be examined no later than the beginning of the student's sophomore year.

The program is approved by the National Council for Accreditation of Teacher Education (NCATE) and the Na-

tional Association of State Directors of Teacher Education and Certification (NASDTEC). Consult "A Student's Guide to Undergraduate Programs in the School of Education" for further information.

Consult adviser regarding certification matters. Consult the School of Education, Preprofessional Advising Office for additional assistance.

Note also: Students are responsible for providing transportation, either public or private, to their student-aided, methods, observations, and student teaching assignments. Attempts will be made to honor individual requests for specific school assignments, but such placements cannot be guaranteed.

University Honors Program

The school's honors coordinator advises students in the University Honors Program regarding options in the major. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon the school's recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Secondary Education Certification

Students major in the field they plan to teach and take a formal sequence of School of Education courses required for certification. All students must meet all school of Education application requirements and deadlines.

Course Requirements

- 21.200 Schools and Society /S 4:2 (3)
- 21.320 Psychology of Education (3)
- 21.321 Field Experience: Observation and Analysis (1)
21.200, 21.320, and 21.321 must all be taken concurrently.
- 21.340 Methods and Materials in Secondary Education: General and Special: English, Social Studies, Mathematics, Foreign Languages (3) [or other approved methods courses offered by the liberal arts departments]
- 21.599 Student Teaching (6-15) (appropriate section)
- For students planning to teach English or social studies (highly recommended for others):
21.371 Theories of Reading (3)
- 21.544 Foundations of Education for Exceptional Children (3)
- or
21.545 Overview of all Exceptionalities: The Arts in Special Education (3)

Accreditation

The following secondary teacher education programs are approved for accreditation by both NASDTEC (National Association of State Directors of Teacher Education and Certification) and NCATE (National Council for the Accreditation of Teacher Education): English, Foreign Languages, Mathematics, Music (also K-12), Biology, Theatre, and Dance. Accredited by NASDTEC only: History, Political Science, Economics, Comprehensive Social Studies, Anthropology, and Sociology.

Note: Students are responsible for providing their own transportation to student-aided, methods, and student teaching assignments. Attempts will be made to honor individual requests for specific school assignments, but such placements cannot be guaranteed.

Minor in Special Education

Admission to the Program

Students wishing to undertake a minor in Special Education must have 2.50 grade-point average and must have completed 21.200 Schools and Society /S 4:2 (3) and 21.320 Psychology of Education (3) with grades of C or better.

Requirements

- Eighteen credit hours from the following:
 - 21.315 Educational Issues and Approaches in Gifted Education (3)
 - 21.402 Methods of Teaching Children with Learning Disabilities (3)
 - 21.502 Methods of Managing Pupils with Behavior Disorders (3)
 - 21.504 Methods of Psychoeducational Assessment (2-3)
 - 21.541 Foundations of Special Education for Exceptional Children (3)
 - 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
- Other courses approved by education adviser, the director of the undergraduate program, or the dean of the School of Education.

Combined Bachelor's/Master of Education Programs in Special Education

Students receive a degree of Bachelor of Arts with a major in Elementary Education or a Bachelor of Science or Bachelor of Arts with a program of study in secondary education, and a degree of Master of Education in Special Education: Learning Disabilities or Special Education: Emotional Disturbance.

Admission to the Program

Students should apply to the M.Ed. program in the second semester of the junior year. Applicants must have a

3.00 grade-point average in major and minor courses; must have completed satisfactorily 21.402 Methods of Teaching Children with Learning Disabilities (3), 21.502 Methods of Managing Pupils with Behavior Disorders (3), and 21.541 Foundations of Special Education for Exceptional Children (3); and must be recommended by the director of the program in Special Education: Emotional Disturbance or Special Education: Learning Disabilities.

Requirements

- All requirements for the B.A. in Elementary Education or B.A. or B.S. with Secondary Education Certification Courses.
- All requirements for the undergraduate minor in Special Education.
- All courses required for the M.Ed. in Special Education: Learning Disabilities or Special Education: Emotional Disturbance.
- 21.502 Methods of Managing Pupils with Behavior Disorders (3) and
- 21.541 Foundations of Special Education for Exceptional Children (3) are taken at the undergraduate level but apply to the requirements for both the B.A. and the M.Ed.

M.Ed. Programs

Admission to the Program

Applicants should have an undergraduate degree with an overall grade-point average of 3.00 on a 4.00 scale, based on the last sixty credit hours of work, a 3.00 or better in education or other major field of specialization, and a satisfactory score on the Graduate Record General Examination or the Miller Analogies Test. Additional admission requirements may be imposed by the School of Education. Applicants are encouraged to consult with the school before applying.

Majors

Students receive a degree of Master of Education with a major in Student Development in Higher Education; Educational Administration; Special Education: Emotional Disturbance; or Special Education: Learning Disabilities.

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work.
- Comprehensive examination. Consult program adviser for details.
- Research, practicum, or Internship.

Course Requirements

Educational Administration

- Fifteen credit hours in the major field including:
21.631 Introduction to Administration in Education, Training, and Development (3)
21.639 Administrative Effectiveness Workshop (3)
- Twelve credit hours of electives.
- Six credit hours to satisfy the nonthesis option.

Student Development in Higher Education

- Fifteen credit hours in the major field.
- Six credit hours in the psychology, foundations, history, or sociology of education; curriculum construction; or analysis of teaching.
- Three credit hours in statistics, tests, and measurements (or approved equivalent).
- Six additional credit hours.
- 21.790 Educational Research (3) and three additional credit hours of research, practicum or internship.

Special Education: Learning Disabilities

- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.503 Theories and Practices in Special Education (3)
- 21.606 Theories and Methods of Diagnostic and Remedial Mathematics (3)
- 21.607 Research Methods in Special Education (3)
- 21.645 Learning Disabilities I (3)
- 21.646 Learning Disabilities II (3)
- 21.671 Foundations of Reading Diagnosis and Remediation (3)
- 21.545 Overview of All Exceptionalities: The Arts in Special Education (3)
or
21.541 Foundations of Special Education for Exceptional Children (3)
- 21.605 Methods of Psychoeducational Assessment for Learning Disabilities (3)
- 21.644 Language Development and Remediation (3)
- 21.792 In-Service Training Project: Internship with Learning Disabled Children (3-6)
- One elective.

The M.Ed. in Special Education: Learning Disabilities is Accredited by NCATE (National Council for the Accreditation of Teacher Education) and NASDTEC (National Association of State Directors of Teacher Education and Certification).

Special Education: Emotional Disturbance

- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.503 Theories and Practices in Special Education (3)
- 21.606 Theories and Methods of Diagnostic and Remedial Mathematics (3)
- 21.501 Language Arts and Social Studies Curricula in Special Education
- 21.607 Research Methods in Special Education (3)
- 21.645 Learning Disabilities I (3)
- 21.671 Foundations of Reading Diagnosis and Remediation (3)
- 21.504 Methods of Psychoeducational Assessment (3)
- 21.620 Theories of Educational Psychology (3)
- 21.792 In-Service Training Project: Internship with Emotionally Disturbed Children (3-6)

M.A. in Education

Admission to the Program

Same as for the Master of Education.

Tracks

Specialized Studies (used for special programs only).

International Education: with emphasis in development education or global and intercultural education.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work for specialized studies and international education.
- Research, practicum, or internship.
- Comprehensive examination.

Course Requirements

Specialized Studies

This track is to be used for specially designed master's programs. Consult an education adviser for further information.

International Education

(There are two tracks within International Education.)

Development Education

- 21.583 Curriculum Construction and Program Design (3)
- 33.637 International Development (3)
- 21.678 Comparative and International Education (3)
- 21.679 Nonformal Education and Development (3)

Global and Intercultural Education

- 21.583 Curriculum Construction and Program Design (3)
- 21.625 Global and Multicultural Education (3)
- 33.642 Cross-Cultural Communication (3)
- 21.678 Comparative and International Education (3)

Research Requirement for Both Tracks

- Six credit hours in:

21.792 In-Service Training Project: Internship in Education (6)

or

21.525 Introduction to Statistics, Tests, and Measurement (3) and

21.693 Program and Training Evaluation (3)

or

21.790 Educational Research (3)

or

two courses at the 600 level or above with the adviser's permission

- Twelve credit hours from a list of recommended courses or those approved by adviser.

Note: All course work must be approved by an adviser and must include six credit hours of research, practicum, or internship.

M.A. in Elementary Education

The M.A. in Elementary Education is designed to prepare students with bachelor's degrees in the liberal arts for careers as elementary-school teachers.

Admission to the Program

Applicants should have an undergraduate degree in the liberal arts with an overall grade-point average of 3.00 or higher on a 4.00 scale. A satisfactory score on the Miller Analogies Test or the GRE is also required.

Major

Elementary Education

Degree and Major Requirements

- A total of forty-two credit hours of approved graduate work including thirty-three hours of course work and nine hours of student teaching (including a student-teaching seminar).
- A comprehensive examination.

Course requirements

- 21.502 Managing Pupils with Behavior Disorders (3)
- 21.541 Foundations of Special Education for Exceptional Children (3)

- 21.521 Foundations of Education (3)
- 21.620 Theories of Educational Psychology (3)
- 21.671 Foundations of Reading: Diagnosis and Remediation (3)
- 21.619 Children's Literature: Multicultural and International Approaches (3)
- 21.552 The Teaching of Mathematics in Elementary Education (2)
- 21.553 The Teaching of Language Arts in Elementary Education (2)
- 21.554 The Teaching of Social Studies in Elementary Education (2)
- 21.555 The Teaching of Reading in Elementary Education (3)
- 21.556 The Teaching of Science in Elementary Education (3)
- 21.599 Student Teaching (9)
- One elective in the School of Education (3)

Students must demonstrate competency in the liberal arts and sciences. Student undergraduate transcripts will be evaluated individually; based on this evaluation students may be required to take additional course work in the liberal arts and sciences.

The M.A. in Elementary Education is accredited by NASDTEC (National Association of State Directors of Teacher Education and Certification).

Master of Arts in Teaching (M.A.T.)

The M.A.T. is designed for students with a bachelor's degree in the liberal arts who want to get teaching certification in secondary education.

Admission to the Program

Applicants should have an undergraduate degree in the liberal arts with an overall grade-point average of 3.00 or higher on a 4.00 scale. Admission is also contingent on sufficient course work in an academic area traditionally taught in secondary schools, such as English, mathematics, social studies, science, foreign languages, theatre, and physical education. A satisfactory score on the Miller Analogies Test or GRE is also required.

Degree and Major Requirements

- A total of thirty-nine credit hours of approved graduate work, including fifteen hours in a liberal arts major, eighteen hours in education, and six hours in a teaching practicum or internship.
- Comprehensive examination.

Course Requirements

- 21.521 Foundations of Education (3)
- 21.620 Theories of Educational Psychology (3)

- 21.502 Managing Pupils with Behavior Disorders (3)
- 21.520 Reading, Writing, and Literature across the Curriculum (3)
- 21.541 Foundations of Special Education for Exceptional Children (3)
- 21.522 Principles of Effective Instruction (3)
- 21.599 Student Teaching (6)
- Five electives in the academic discipline of the designated teaching area (15)

The Master of Arts in Teaching (M.A.T.) is accredited by NASDTEC (The National Association of State Directors of Teacher Education and Certification).

Master of Science in Science Teaching (M.S.S.T.)

For information about the interdepartmental Master of Science in Science Teaching degree program, see Interdepartmental Science in this publication.

Doctoral Programs in Education

The School of Education accepts candidates for the degrees of Doctor of Education and Doctor of Philosophy with majors in Counseling and Development and in Educational Administration (See the Mathematics section of this publication for Ph.D. in Mathematics Education). Applicants should consult with the school for information regarding other areas of emphasis.

Admission to the Program

A bachelor's degree and, in most cases, a master's degree are required for entrance to a doctoral program. In order to gain admission, students should have achieved a satisfactory score on the Graduate Record General Examination or the Miller Analogies Test and an acceptable grade-point average on previous graduate and undergraduate work. Specific standards may be obtained from the School of Education.

Degree and Major Requirements

- At least seventy-two credit hours of approved graduate work.
- Ph.D. candidates: Two tools of research: one in statistics or educational statistics (see note below) and a second in computer language, sign language, a foreign language, or another field approved by the school.
- Ed.D. candidates: One tool of research in statistics, educational statistics (see note below), computer language, sign language, a foreign language, or another field approved by the school.

Note: The tool in educational statistics consists of 21.525 (or approved equivalent taken at another university) and 42.514 with a grade of B (3.0) or better.

- Four comprehensive examinations: two written, one oral, one written or oral.

Counseling and Development: 21.011 Counseling, 21.017 Student Development, an oral examination in counseling and student development, and one additional examination either in or outside the School of Education.

Educational Administration: Candidates for either the Ph.D. or Ed.D. degree must take comprehensive examinations in educational administration. Candidates for the Ph.D. must take an examination in one support field in the School of Education; the second support-field examination may be taken either inside or outside the school. Candidates for the Ed.D. must take examinations in two support fields, both of which may be in the School of Education.

Candidates should consult their advisers concerning the comprehensive examinations. The candidate must make the necessary arrangements with the appropriate department for examinations taken outside the School of Education. Comprehensive areas outside the school include, but are not limited to: clinical psychology, history, management, sociology, government, and statistics.

- Dissertation and oral defense. The dissertation research must be directed by a member of the full-time faculty.

Course Requirements

- 21.790 Educational Research (3)
- One graduate-level course in statistical methods beyond the master's requirement.

(Students whose dissertations involve quantitative research must take additional course work in statistics.)

- Twelve hours of dissertation research.

Specific courses are required for all doctoral study areas. Students must have an approved program of study that reflects these requirements. All programs of study must be approved by the dean of the School of Education.

Health and Fitness

Chair Robert C. Karch

Full-Time Faculty

Professor R.H. Fradley (Emeritus), D.S. Geiser (Emeritus), V.E. Hawke (Emerita) J.W. Hubbell (Emerita), R.C. Karch

Associate Professor B.G. Coward, R.E. McFeeter (Emerita), L.G. Nyce, B.J. Reimann

Assistant Professor P. Mehler, J.R. Rogers, B.L. Seaward.

The Department of Health and Fitness provides opportunities for students to learn about and experience aspects of fitness, movement, and sport that last throughout a lifetime of physical activity. The diversity of courses emphasizes the development of physical skills and the acquisition of cognitive understanding. Students are urged to participate in these courses early in their college years so that they might acquire the skills and knowledge to reduce the pressure of a busy, stress-filled schedule.

To achieve these goals, students need to attain the levels of fitness and skills that are the requisites for sports activities. In addition to psychomotor skill development, students must also acquire an understanding of fitness and wellness as they apply to their individual lifestyles.

Fitness and sport skills that can be enjoyed throughout life should be part of the education of The American University student. Students are encouraged to explore the interdisciplinary relationship between courses of this department and those of other schools and departments of the university.

M.S. in Health/Fitness Management

The primary objective of the Health/Fitness Management Program is to provide a competency based, multidisciplinary academic track for individuals dedicated to assuming leadership positions within the health-fitness industry. The curriculum integrates managerial skills with scientific and clinical knowledge of exercise physiology, human biochemistry, behavioral psychology, and nutrition.

Admission to the Program

The program is open to students with varied undergraduate backgrounds and has few science-related academic prerequisites. The academic record and experience of each applicant will be thoroughly reviewed by the program director. The minimum university requirements for admission to graduate study are a bachelor's degree earned at an accredited college or university and a 3.0 cumulative grade-point average (on a 4.0 scale) for the last sixty credit hours of undergraduate study. A satisfactory score on the Graduate Management Admissions Test (GMAT) or the Graduate Record Exam (GRE) is required

for admission. Program prerequisites include human anatomy and physiology and exercise physiology.

International applicants who are fluent in written and spoken English are welcomed and encouraged to apply. To be considered for admission, applicants must meet university requirements for writing and speaking English.

All applicants must submit an additional reference and a supplementary graduate application directly to the Department of Health and Fitness. Additional information can be obtained by calling (202) 885-6275.

Degree and Major Requirements

- A total of forty-two credit hours of graduate work.
- One tool of research.
- Thesis or Internship.
- One written and one oral comprehensive examination.

Course Requirements

- 10.610 Organizational Theory and Behavior (3)
- 15.506 Human Physiological Chemistry (3)
- 21.551 Counseling Skills in Training and Development (3)
- 49.610 Applied Human Physiology and Testing I (3)
- 49.615 Applied Human Physiology and Testing II (3)
- 49.618 Strategic Planning in Health Promotion (3)
- 49.640 Nutrition for Health/Fitness (3)
- 49.790 Selected Topics in Health/Fitness Management (3)
- 49.791 Research Methodology in Health/Fitness (3)
- 49.792 In-Service Training in Health/Fitness Management (3)
or
- 49.797 Master's Thesis Seminar in Health/Fitness Management (3)
- 54.652 Building Effective Work Teams (3)
- 55.511 Concepts in Systems and Information (3)
- 57.570 Behavioral Medicine (3)
- A statistics tool-of-research examination or a graduate-level statistics course completed with a B or better (three credit hours approved by the department: e.g., 42.514).

Special Opportunities and Facilities

The branches, agencies, and offices of the federal government and the many centers and organizations dealing with health, education, business, and physical fitness provide numerous internship and cooperative-education opportunities for students in the Health/Fitness program. Within minutes of the campus are: the Department of Health and Human Services, the National Institutes of Health, the National Institute of Aging, the President's Council on Physical Fitness and Sports, and the National Library of Medicine.

The Master of Science program in Health/Fitness Management is an integral part of The American University's National Center for Health/Fitness. Students in the program share many of the center's resources and facilities. These include a human performance laboratory with the state-of-the-art diagnostic equipment for assessment of cardiovascular fitness and pulmonary function; a physical-fitness center fully equipped to accommodate all forms of human conditioning; a body-composition laboratory with modern hydrostatic weighing facilities; a recording studio for production of health/fitness-promotion materials and performance evaluations; and computer communication systems.

History

Chair Robert L. Beisner

Full-Time Faculty

Professor C. Anthon (Emeritus), R.L. Beisner, R.D. Breitman, R.H. Brown, D. Gundos (Emerita), J. Joughin (Emerita), A.M. Kraut, A.J. Lichtman, C.C. McLaughlin, J. Oppenheim

Associate Professor V. French, I. Klein, J.A. Malloy, P.S. Nadell

Assistant Professor M. Kazin, P. Kuznick, T. Murphy

Visiting Faculty Nathan I. Huggins

Research Faculty

Research Professor C. Beveridge

History is the record of the past and the academic discipline of those making a serious study of the past. Studying history means examining the full range of human endeavor: the arts and sciences; politics and the spread of political ideas across boundaries of space and time; economic and technological change; and the relationships of individuals and groups to their communities and cultures. Anyone concerned with the contemporary world cannot comprehend its problems without some awareness of how it differs from past eras.

As part of the humanities, history includes all forms of creative thought and expression. At the same time, it requires as much rigor in the use and analysis of evidence as any social science.

Both the undergraduate and graduate programs in history emphasize interdisciplinary study and close contact between students and faculty. Students have easy access to such great research collections as the Library of Congress, National Archives, and the National Library of Medicine. Internships are available in historical agencies, congressional offices, and such varied organizations as the Textile Museum and U.S. Supreme Court. Besides preparing students for careers in teaching and scholarship, or for admission to law schools, history's rigorous training in research, writing, and intellectual problem-solving equips graduates for excellent placement in business, government, public-interest associations, journalism, and many other professions.

B.A. in History

Admission to the Program

Students must be approved by the department for formal admission to the major.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of thirty-nine credit hours with grades of C or better including at least fifteen credit hours at the .300 level or above.

Course Requirements

- 29.480 Major Seminar I (3)
- 29.481 Major Seminar II (3)
- One course in ancient or medieval history.
- One course in Russian, Asian, African, or Latin American history.
- One course in United States history at the 300 level or above.
- One course in Western European or British history at the 300 level or above.
- Additional courses to make a total of thirty-nine credit hours in history, at least twenty of which must be taken at The American University.

Special Opportunities

University Honors in History; Dorothy Ditter Gondos Award; in-ternships. Students may discuss honors in History with the department's honors coordinator.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the

section on the University Honors Program in this catalog for further details.

Minor in History

Requirements

- One course in Western European or British history at the 300 level or above.
- One course in U.S. history at the 300 level or above.
- One course in the history of an area other than those mentioned above.
- Four more courses in history, including at least two at the 300 level or above.
- At least twelve of the twenty-one credit hours in history must be taken at The American University.

B.A./M.A. in History

Admission to the Program

The program enables students to complete the B.A. and M.A. in history in five years. Students will be admitted formally to M.A. status only if they have completed all requirements for the B.A. in history with strong grades (3.0 cumulative grade-point average and a 3.2 in history courses). Students should apply for admission to the program in their junior year. Those students moving to M.A. standing will be exempt from the usual Graduate Record Examination requirement.

Requirements

- All requirements for the B.A. degree with a major in history.
- All requirements for the M.A. degree with a major in history.

Students may apply six credit hours of course work in history to satisfy the requirements of both degrees.

M.A. in History

Admission to the Program

Requirements: results of the Graduate Record Examination (Verbal and Quantitative General); letters of recommendation from two professors with whom work was taken recently; substantial beginning in a tool of research; and favorable judgment of the department graduate committee and chair.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.

- One of the following as a tool of research: foreign language, quantitative methods, statistics, computer science, or a methodology approved by the graduate committee of the Department of History.

- One comprehensive examination.

- Thesis option: a satisfactory thesis, completed through six hours of 29.797 Master's Thesis Seminar and one research seminar (with a grade of B or better).

Nonthesis option: two substantial research papers done in research seminars (with grades of B or better).

Course Requirements

- Two sections of 29.500 Studies in History with grades of B or better. New graduate students are normally expected to take at least one section of 29.500 in their first year of study.

- Two colloquia from the following with grades of B or better:

29.720 Colloquium in Modern European History 1815–1945 (3)

29.727 Colloquium in United States History I: to 1865 (3)

29.728 Colloquium in United States History II: since 1865 (3)

or approved substitute.

- Thesis option:
29.797 Master's Thesis Seminar (6)

Three credit hours from the following:

29.751 Research Seminar in European History (3)

29.752 Research Seminar in United States History (3)

or approved substitute.

Nonthesis option:

Six credit hours from the following:

29.751 Research Seminar in European History (3)

29.752 Research Seminar in United States History (3)

or approved substitute.

- Courses selected to fulfill either (1) a single-field program in United States or modern European history, or (2) a two-field program with a major field (eighteen credit hours) and a minor field (twelve credit hours).

Special Opportunities

Internships at the National Archives, U.S. Government agencies, and local historical societies.

Landmarks Graduate Fellowship (See "Financial Aid" in this publication.)

Ph.D. in History

Admission to the Program

Requirements: completion of the M.A. degree in history or in a related field; substantial beginning in one tool of research; results of the Graduate Record Examination (Verbal and Quantitative General); letters of recommendation from two professors with whom work was taken recently; sample of recent written work of substantial length (M.A. thesis, research paper, or interpretative essay) sent directly to the Department of History; and favorable judgment of the department's graduate committee and department chair.

Degree and Major Requirements

- A total of forty-two credit hours of approved graduate work beyond the M.A.
- Two of the following as tools of research: foreign languages, quantitative methods, statistics, computer science, or a methodology approved by the graduate committee of the Department of History.
- Four comprehensive examinations: three written and one oral. Comprehensive examinations are offered in the areas of ancient history, United States history, modern European history, British history, Latin American history, modern Asian history, Russian history, and diplomatic history. One comprehensive examination must be in one of the following: a historical field outside the student's main area of concentration, a comparative cross-disciplinary field, or a field in another discipline.
- Dissertation and oral defense. (Dissertation work is not usually available in ancient, Russian, or Latin American history.)
- Advancement to candidacy after completion of comprehensive examinations and at the time the dissertation proposal is approved.

Course Requirements

- Two sections of 29.500 Studies in History with grades of B or better (except that students receiving an M.A. in History from The American University are required to take only one section). New graduate students are normally expected to take at least one section of 29.500 in their first year of study.
- Two of the following with a grade of B or better (except that students receiving an M.A. in History from The American University are required to take only one of the following):
29.720 Colloquium in Modern European History, 1815–1945 (3)
29.727 Colloquium in United States History I: to 1865 (3)

- 29.728 Colloquium in United States History II: since 1865 (3)
or approved substitute.
- Two research seminars for six credit hours from the following with grades of B or better:
29.751 Research Seminar in European History (3)
29.752 Research Seminar in United States History (3)
or approved substitute.
- At least twelve hours of dissertation seminar.

Information Systems

(See program description under Computer Science and Information Systems.)

Interdepartmental Science

Coordinator Chair of department of major science or mathematics

Faculty Faculties of the departments of Biology; Chemistry; Computer Science and Information Systems; Mathematics and Statistics; Physics; and Psychology; and of the School of Education.

B.S. in Distributed Science

Admission to the Program

No unique admission requirements.

Tracks

Biology, Chemistry, Mathematics, Physics, and Psychology.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of seventy-four credit hours with grades of C or better.

Course Requirements

- 41.221 Calculus I / N (4)
- 41.222 Calculus II / N (4)
- Two courses selected from: anthropology, economics, philosophy, 40.280 Introduction to Computer Science I / N (4), 40.281 Introduction to Computer Science II / N (4), and 57.115 Experimental Foundations of Psychology (3).
- Twenty-six credit hours in one area of science or mathematics.
- Twelve credit hours in a second area of science or mathematics.
- Eight credit hours in a third area of science or mathematics.
- Eight credit hours in a fourth area of science or mathematics.
- Six additional credit hours in either the first or second area of science or mathematics.

Courses should be taken in the sequence specified by each department.

The following may not be used as credit toward meeting the requirements for this major: 15.101, 15.102, 41.211, 41.212, 50.101, 51.204, and 51.210.

See Also: Undergraduate program in environmental studies under Biology in this publication.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Master of Science in Science Teaching (M.S.S.T.)

Admission to the Program

The degree of M.S.S.T. is administered jointly by the departments of the natural sciences, the Department of Mathematics, Statistics, and Computer Science, and the School of Education. Students interested in this program should consult the program coordinator and the chair of the science or mathematics department in which they plan to concentrate. The chair of that department will assign an adviser. Students must have completed either the Gradu-

ate Record Examination or the Miller Analogies Test. Two letters of recommendation are required.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate course work.
- Advancement to candidacy on completing twelve graduate credit hours.
- Two comprehensive examinations: one in education and one in the area of science concentration.

All comprehensive examinations must have the approval of the coordinator of the Master of Science in Science Teaching.

- A nonthesis option as approved by the faculty adviser.

Course Requirements

Prerequisite: One year of college mathematics (algebra and analytic geometry or equivalent) taken either before entering the M.S.S.T. program or as an additional course for no graduate credit along with the courses taken for graduate credit.

- Six credit hours in the field of concentration.

The student's undergraduate and graduate courses in the area of concentration must total at least thirty-two credit hours.

- At least eight credit hours in a second science field.
- Six credit hours of graduate courses in education in consultation with the coordinator of the Master of Science in Science Teaching. These courses must be related to one of the comprehensive examinations in education.

A maximum of twelve credit hours of courses from the 300 and 400 level may be applied toward the requirements for this degree.

Note Also: See the master's degree programs in the departments of Biology; Chemistry; Mathematics and Statistics; and Computer Science and Information Systems; Physics; and Psychology; and in the School of Education.

Jewish Studies Program

Director Benjamin Kahn

Full-Time Faculty

Associate Professor P.S. Nadell

Faculty of other schools and departments of the university and from the community also teach in the program.

The program in Jewish Studies recognizes that Jews and Judaism constitute a distinct yet integral component

of the heritage of Western civilization. Jewish Studies courses, therefore, analyze the civilization of the Jews and its various cultural and religious expressions from the patriarchal period to the present.

Since Jewish Studies embrace the total experience of the Jewish people, these courses span the spectrum of the arts, humanities, and the social sciences. Moreover, since dynamic contact with many other religions and cultures influenced the development of Jewish civilization, Jewish Studies courses view Jews and Judaism within the broader context of these dominant societies. Courses in Jewish Studies enrich one's understanding of American and world Jewries. The majors and minors in Jewish Studies prepare students for leadership within and service to the Jewish community, and for a greater understanding of our pluralistic society.

Morris Gewirtz Series in Jewish Thought

Established in 1975 through an endowment grant from the family of the late Morris Gewirtz, noted Washington Jewish philanthropist, in memory of his commitment to Jewish education. It includes a two-semester survey of the development of Jewish civilization and specialized studies such as modern Jewish philosophy.

Dr. Everett and Marian Gordon Studies in Judaism's Interfaith Dimensions

Established in 1976 through an endowment grant from Dr. Everett Gordon and his wife Marian. Provision is made for courses and lectures which uncover the common roots of Western religion and compare Judaism with Christianity and Islam.

Dr. Everett and Marian Gordon Scholarship Awards in Jewish Studies

Also established in 1976 through an endowment grant from noted Washington orthopaedic surgeon Dr. Everett Gordon and his wife Marian. Funding is provided for awards for and printing of outstanding senior theses in Jewish studies and for work and other scholarships for classroom performance by students in courses in Jewish studies, with preference given to students without previous background in Jewish studies.

Jerrold and Jane Goodman Scholarships

Established in 1979 through an annual grant from Yablick Charities, Inc. Scholarships are awarded annually to outstanding students in Jewish Studies.

Jewish Chautauqua Society Lectureships

The Resident Lectureship Committee of the Jewish Chautauqua Society (under the auspices of the National Federation of Temple Brotherhoods) endows two courses each year in the Jewish Studies program.

Special Opportunities

(1) Since Washington, D.C., is a center of Jewish organizational life, we offer internships for credit with local Jewish organizations devoted to community relations, religious activities, Israel, social welfare, etc. (2) Double major: Jewish Studies correlated with a major in another

department or school of the university. (3) Jewish Studies minor for majors in the School of Education leading to a certificate for teaching in Jewish schools. (4) Preparation for careers in Jewish communal service.

B.A. in Jewish Studies

Admission to the Program

Admission to the program requires a 2.00 grade-point average and the approval of the director of the program.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A minimum of thirty-nine credit hours in Jewish Studies, plus senior thesis.

Course Requirements

- 34.205 Ancient and Medieval Jewish Civilization /S 2:2 (3)
- 34.206 Modern Jewish Civilization /S (3)
- 34.481 Senior Thesis in Jewish Studies (3)
- 36.216 Hebrew, Intermediate Modern I /A (3)
- 36.217 Hebrew, Intermediate Modern II /A (3) or equivalent proficiency in Hebrew as approved by the Jewish Studies Program faculty.

Note that 36.116 Hebrew, Elementary Modern I /A (3) and 36.117 Hebrew, Elementary Modern II /A (3) (or equivalent) are prerequisites for the language requirement but do not count toward the major.

- One course in Jewish literature.
- One course in Jewish thought.
- One course in contemporary Jewish life.
- Fifteen additional credit hours in Jewish Studies.

Eighteen of the total thirty-nine hours must be at the 300 level or above. Some courses, with the approval of the program director, may be related courses in other units of the university.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Jewish Studies

Course Requirements

- 34.205 Ancient and Medieval Jewish Civilization /S 2:2 (3)
- 34.206 Modern Jewish Civilization /S (3)
- One course in Jewish literature.
- One course in Jewish thought.
- One course in contemporary Jewish life.
- At least one additional course, to make a minimum of eighteen credit hours in Jewish Studies, with a grade of C or better. Twelve of the eighteen hours must be at the 300 level or above.

Language and Foreign Studies

Chair Anthony S. Caprio

Full-Time Faculty

Professor N. Baron, E.I. Burkart (Emeritus), G.S. Burkart (Emerita), A.S. Caprio, R.P. Fox, V. Medish, H. Mueller (Emeritus), H. Noel (Emeritus), B.F. Steinbrucker

Associate Professor M.J. Betts (Emerita), V.Z. Borkovec, M. Charbonneau (Emerita), J. Child, J. Goldin, M.A.G. Hood (Emerita), H. Pineda, O. Salazar, J. Wisman, Z. Wythe (Emerita)

Assistant Professor P.R. Côté, N. Harris, E. Oktay (Emerita), D. Rodamar, O. Rojer

Visiting Assistant Professor R. Kopytko

In an increasingly complex world that grows smaller every day, the study of foreign languages, literature, and cultures is of vital importance. Learning the ways in which other nations live and think furthers understanding among peoples and cultures. The Department of Language and Foreign Studies offers extensive study in French, German, Russian, and Spanish foreign language and culture; as well as a joint area and language program with the School of International Service and a joint degree program with the School of Communication. In addition, language

courses in Chinese, Hebrew, Italian, Hindi, Polish, Japanese, and Latin are usually offered each academic year.

With its large diplomatic community, Washington is ideally situated to offer students the opportunity to exchange ideas and enhance their language skills with native speakers. The university can also draw from a large foreign student body in the exchange of cultures and languages. Extensive language practice is available through the Co-operative Education Program which provides international work-study for academic credit. For Spanish-degree candidates internships are available in the Hispanic community in the local area.

A knowledge of a foreign or second language clearly offers greater employment opportunities today. Many areas of business, industry, and government service consider a background in foreign language a career must. Recent graduates of the department have been employed in a variety of organizations and fields including the Department of State, Library of Congress, National Security Agency, Voice of America, and National Academy of Sciences, as well as international import and export firms, public and private high schools, and research-and-development firms.

Description of the Language Program

First Year 100-Level Intensive and Nonintensive Elementary Courses Emphasis on mastering structure for oral and written communication. Basics of phonology and morphology. Situational approach. Perfection of audiolingual skills. Development of good pronunciation and speech patterns. Five hours of class instruction per week (two and a half hours for nonintensive courses) supplemented by individual language laboratory work.

Second Year 200-Level Intensive and Nonintensive Intermediate Courses Emphasis on cultural patterns and contrasts between cultures. Refinement of basic language skills. Study of more complex grammatical structures. Introduction of syntax. Expansion of vocabulary in a cultural context. Intensive and extensive reading. Controlled writing projects. Transition from manipulation of patterns to development of communicative skills. Appropriate use of audiovisuals. Five hours of class instruction per week (two and a half hours for nonintensive courses) supplemented by individual language laboratory work.

Third Year 300-Level Intensive and Nonintensive Conversation and Composition Courses Emphasis on style and style level. Expansion of vocabulary through extensive reading of literary excerpts, current newspapers, and magazines, assisted by frequent use of audiovisual aids. Perfection of oral skills. Review of grammatical structures. Creative use of language. Study of semantic problems, idioms, clichés, and figurative speech. Five hours of class instruction per week (two and a half hours for nonintensive courses).

Additional 300-Level Courses Selected topics courses taught in the foreign language. Designed for both majors and nonmajors. May be repeated for credit provided different subjects are covered.

300- and 400-Level Civilization Courses Survey of a foreign civilization. Emphasis on the historical develop-

ment of literature. Topical lectures. Designed for both majors and nonmajors.

B.A. in French, German, Russian, or Spanish Studies

Admission to the Program

Completion of designated language course work as outlined below for each language. Language course work may be waived if high school or other preparation warrants it. Placement will be made in consultation with a departmental adviser.

Majors

French, German, Russian, or Spanish Studies.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-two credit hours with grades of C or better; thirty-three credit hours for Russian major.
- Prerequisite completion of elementary language level; intermediate level for Russian major.
- One of the following field concentrations:
 - 1) Twelve credit hours in a second foreign language at any level.
 - 2) Twelve credit hours in area studies in the major field at the 300 level or above.
 - 3) Teacher education leading to certification to teach a foreign language at the secondary level.
 - 4) An approved minor or major related to the major field; for example, a minor in another language, business administration, mass media studies, international business, economics, political science, history, sociology, literature, anthropology, or international studies.

Teacher Certification

Students preparing for French or Spanish teacher certification must be admitted to the secondary teacher cer-

tification program in the School of Education. Consult the School of Education section in this publication for information.

Course Requirements

French

- Six to twelve hours of:
 - 36.222 French, Intermediate I /A (3) and
 - 36.223 French, Intermediate II /A (3)
 - or
 - 36.224 French, Intensive Intermediate I /A (6) and
 - 36.225 French, Intensive Intermediate II /A (6)
- 37.327 Introduction to French Literature (3)
- 37.324 French Intensive Conversation and Composition I /A (6) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.325 French Intensive Conversation and Composition II /A (6) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.428 French Civilization I (3)
- 37.429 French Civilization II (3)
- Remaining credit hours at the 300 level or above with at least six credit hours at the 500 level.

German

- 36.232 German, Intermediate I /A (3)
- 36.233 German, Intermediate II /A (3)
- 37.330 German Grammar Review (3)
- 37.332 German Conversation and Composition I /A (3) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.333 German Conversation and Composition II /A (3) (may be replaced by other 300- or 500-level courses if warranted by language proficiency)
- 37.337 Introduction to German Literature (3)
- 37.438 German Civilization I (3)
- 37.439 German Civilization II (3)
- Remaining credit hours chosen from 500-level courses, independent study projects, and topics courses in German studies.

Russian

- 37.342 Russian Conversation and Composition I /A (3)
- 37.343 Russian Conversation and Composition II /A (3)
- 75.501 Integrated Seminar on Russia (3)
- Twenty-one credit hours from the following:
 - 37.341 Russian Political Translation (3)
 - 37.442 Russian Literary Translation (3)

500-level Russian literature or Russian linguistics courses.

37.390 Independent Reading Course in Language and Foreign Studies (1-6)

or

37.490 Independent Study Project in Language and Foreign Studies (1-6)

Spanish

- Six to twelve credit hours of intermediate Spanish.
- 37.350 Introduction to Hispanic Culture (3)
- 37.354 Spanish Intensive Conversation and Composition I /A (6) (may be replaced by other 300- or 500-level course if warranted by language proficiency)
- 37.355 Spanish Intensive Conversation and Composition II /A (6) (may be replaced by other 300- or 500-level course if warranted by language proficiency)
- 37.357 Introduction to Spanish Literature (3)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)
- 37.491 Internship: Spanish (2-6)
- Remaining credit hours chosen from Spanish topics, colloquium, and literature courses.

Note Also: The Department of Language and Foreign Studies faculty offers teacher education courses through the School of Education.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Language and Area Studies

Students receive a B.A. in a language and area study from the College of Arts and Sciences or the School of International Service.

Admission to the Program

Freshmen and transfer students are admitted to the Department of Language and Foreign Studies in the College of Arts and Sciences or to the School of International Service. They must achieve a 3.00 or better cumulative average and determine their language and area before they are formally recognized as majors.

Majors

French/West European Area Studies; German/West European Area Studies; Russian/USSR Area Studies; Spanish/Latin American Area Studies.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-two credit hours with grades of C or better.

Eighteen of the total credit hours in the language of the major at the 300 level or above taken in the Department of Language and Foreign Studies.

Twenty-four of the total credit hours in the area of specialization fulfilled according to requirements for the College of Arts and Sciences degree or the School of International Service degree.

Course Requirements*French*

- 37.324 French Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.325 French Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.428 French Civilization I (3)
- 37.429 French Civilization II (3)

German

- 37.332 German Conversation and Composition I /A (3) (or substitute if warranted by language proficiency)
- 37.333 German Conversation and Composition II /A (3) (or substitute if warranted by language proficiency)
- 37.338 German Civilization I (3)
- 37.339 German Civilization II (3)
- Additional six credit hours in German as advised.

Spanish

- 37.354 Spanish Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.355 Spanish Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)

Russian

- Courses chosen from regular Russian offerings in consultation with adviser.

College of Arts and Sciences

- Twenty-four credit hours in area-related courses in anthropology, economics, government, history, international relations, language and foreign studies (beyond the eighteen-semester-hour requirement), literature, interdisciplinary studies, and the general education complement. Courses are chosen in consultation with the adviser.

School of International Service

- Twenty-four credit hours of course work specific to the major area of which at least six credit hours must be in the School of International Service (SIS).

Other course work may be taken in anthropology, economics, government, history, language and foreign studies (beyond the eighteen-semester-hour requirement), literature, interdisciplinary studies, and the general education complement.

Note: SIS-degree candidates must include in their program a minimum of eighteen credit hours of SIS course work.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Foreign Language and Communication Media**Admission to the Program**

Students are admitted to both the School of Communication and the Department of Language and Foreign Studies.

Tracks

French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- Prerequisite competency in the major language at the intermediate level.
- A total of fifty-four credit hours with grades of C or better.

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.205 Understanding Mass Media /S 4:2 (3)
- Three communication and media studies courses from the School of Communication. (See Media Studies [MS] in the course listing in this publication.)
- Two courses related to any contemporary culture taught inside or outside the department.
- One of the following:
38.198 Language and Ethnicity (3)
38.199 International Vocabulary (3)
38.200 Language and Mind (3)
- Five professional courses in one of the four program tracks: Broadcast Journalism, Print Journalism, Public Communication, or Visual Media.
- Fifteen credit hours of courses in the major language at the 300 level or above taken in the Department of Language and Foreign Studies.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the

section on the University Honors Program in this catalog for further details.

Minor in French, German, Russian, or Spanish Language

Requirements

- Twenty-four credit hours of courses taught in the foreign language, of which twelve credit hours must be at the 300 level or above.

Minor in Russian Studies

Requirements

- 75.501 Integrated Seminar on Russia (3)
- Fifteen credit hours in Russian studies selected from course offerings in at least three different teaching units. Nine of these fifteen credit hours must be at the 300 level or above.

Minor in Language and Area Studies (French and Spanish)

Requirements

- A total of twenty-four credit hours.
- Twelve credit hours in the Department of Language and Foreign Studies. Six of these twelve credit hours must be at the 300 level or above.
- Twelve credit hours selected from relevant course offerings in the Department of Language and Foreign Studies or in other teaching units. Studies may be in such fields as international service, government and public affairs, business administration, anthropology, history, or economics. Six of these twelve credit hours must be at the 300 level or above.

Undergraduate Certificate in Translation

Students receive an Undergraduate Certificate in Translation in French, German, Russian, or Spanish.

The emphasis of this program is on translation into English.

Admission to the Program

Open to all students who have completed the 300-level Conversation and Composition II language course or equivalent.

Course Requirements

- Fifteen credit hours at the 300 level or above of which at least twelve must be taken in the Department of Language and Foreign Studies.

The remaining three credit hours may be a writing-intensive course chosen in another unit in consultation with the language adviser.

- Competency examination.

M.A. in French, Russian, or Spanish Studies

Admission to the Program

Requires a B.A. or an equivalent foreign degree in the language and proficiency in the appropriate language and culture. Part-time as well as full-time students are welcome in the program.

Majors

French, Russian, or Spanish Studies

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work with a 3.00 grade-point average (on 4.00 scale).

Students may pursue Concentration Option A (French only) or B described below.

- Two written comprehensive examinations in the field or fields of core courses. One of these must be conducted in the foreign language. An oral interview in the foreign language precedes the written comprehensive to evaluate the student's preparedness.
- Thesis option: At least one 700-level seminar offered in the Department of Language and Foreign Studies and thesis preparation (usually expressed as three credit hours in 37.797).

Nonthesis option: At least two advanced graduate seminars, one of which must be in the Department of Language and Foreign Studies. With special permission, the second seminar can be replaced with a supervised research project.

Concentration Option A (French only): Concentration in Language, Culture, Literature Studies consisting of at least twenty-four credit hours in appropriate courses and colloquiums taught in the foreign language and offered by the Department of Language and Foreign Studies.

Concentration Option B: Concentration in Language Studies and one of the following areas: Anthropology, Communication and Media Studies, Education, History, International Affairs, International Business, Linguistics, or Sociology. The program consists of at least fifteen credit hours in approved courses taught in the foreign language and offered by the Department of Language and Foreign

Studies and at least nine credit hours in courses in the chosen area of concentration outside the department.

Special Opportunities

The following study opportunities may partially satisfy course work in the chosen concentration: Graduate Certificate in Teaching English to Speakers of Other Languages, Certificate of Expertise in European Integration, and International Work-Study for academic credit through the Cooperative Education Program.

Graduate Certificate in Translation

Students receive a Graduate Certificate in Translation in French, Russian, or Spanish. The emphasis of this program is on translation into English.

Admission to the Program

Open to all students who have a bachelor's degree and have completed the 300-level Conversation and Composition II language course or equivalent.

Course Requirements

- Fifteen credit hours at the 500 level or above of which at least twelve must be taken in the Department of Language and Foreign Studies.

The remaining three credit hours may be a writing-intensive course chosen in another unit in consultation with the language adviser.

- Competency examination.

M.A. in Linguistics

Admission to the Program

Applicants to the Master's Program in Linguistics are subject to the minimum university requirements for admission to graduate study. Further, a 3.00 average (on a 4.00 scale) in the undergraduate major and two letters of academic reference are required. International students are expected to demonstrate competence in English equivalent to a score of 600 or better on the Test of English as a Foreign Language (TOEFL). English instruction is available at the English Language Institute for students who meet all admissions requirements except for competence in English. Part-time as well as full-time students are welcome in the program.

Track

Specialization in Teaching English to Speakers of Other Languages.

Degree and Major Requirements

- At least thirty credit hours of approved graduate work in linguistics.

- An oral qualifying examination and a written comprehensive examination.

The qualifying examination is an oral interview before an appointed committee to evaluate the student's preparedness for the written comprehensive examination.

The written comprehensive examination is taken after completion of all required course work, based on the core courses (38.500, 38.501, 38.502), the courses below, and additional courses and reading lists as required.

- Thesis option: thesis and oral defense. (See Course Requirements below.)

Nonthesis option: (See Course Requirements below.)

Course Requirements

Core Courses

- 38.500 Principles of Linguistics (3)
- 38.501 Theory and Practice of ELT I (3)
- 38.502 Theory and Practice of ELT II (3)
- Six hours from the following courses:
 - 38.521 History of Linguistics and Language Teaching (3)
 - 38.525 Teaching English for Specific Purposes (3)
 - 38.527 Sociolinguistics (3)
 - 38.620 Practicum in Teaching ESL/EFL (3)
- 38.700 Seminar in Linguistics (3)
- Six hours to be selected in consultation with an adviser.
- Thesis option: 38.797 Master's Thesis Seminar (6)

Nonthesis option: six hours to be selected in consultation with an adviser.

Special Opportunities

The Office of Continuing Education and Conferences in cooperation with the Department of Language and Foreign Studies offers a certificate for nondegree students and to qualified undergraduate and graduate degree students at The American University in Teaching English to Speakers of Other Languages. The required courses in the certificate program (38.500, 38.501, and 38.502) and the two electives, if properly chosen, may be applied toward satisfaction of requirements for the M.A. in Linguistics.

Students who are enrolled in nondegree status for the certificate program and who wish to change to graduate status must do so on completion of no more than twelve credit hours of the certificate program.

Graduate Certificate in Teaching English to Speakers of Other Languages

Admission to the Program

Open to students with a bachelor's degree from an accredited institution. International students must demonstrate competence in English equivalent to a score of 600 or above in the Test of English as a Foreign Language (TOEFL).

Course Requirements

- 38.500 Principles of Linguistics (3)
- 38.501 Theory and Practice of ELT I (3)
- 38.502 Theory and Practice of ELT II (3)
- Two elective courses.

Literature

Chair Kay Mussell

Full-Time Faculty

Professor M.C. Batchelder (Emeritus), B.T. Bennett, C.M. Clark (Emeritus), P. Han (Emeritus), J.J. Jorgens, F. Kelly (Emerita), E.L. Kessler, F. King (Emerita), C.R. Larson, A. Lustig, K.W. Moyer, K. Mussell, M. Patton (Emerita), J.A. Roberts, R. Rubenstein, H.S. Taylor, F. Turaj, L. Young (Emerita)

Associate Professor A.P. Bean (Emeritus), J. Loesberg, J.N. Radner, W.E. Stahr, S. Yarnall (Emerita), F.E. Zaparka

Assistant Professor T.F. Cannon, Jr., J. Lee, D.C. Payne, E. Smoodin

Concerned with the study of literature, writing, and film, the Department of Literature offers courses that embrace many approaches to the rich heritage of written, oral, and cinematic tradition, as well as courses that challenge students to write creatively and professionally. In addition to taking courses, our students are encouraged at all levels of study to enroll in internships, to sample careers that use the skills they are developing in the classroom; Washington affords a wide range of job opportunities (many involving writing or editing) in settings such as arts organizations, radio and television, government offices, public interest organizations, museums, schools, and community groups.

The department's faculty of scholars and writers staff three degree programs in literature: B.A., M.A., and the M.F.A. in Creative Writing. All three programs offer students the chance to study literature, film criticism, and creative writing; all are small and flexible programs that bring students and faculty into close contact in small classes and informal gatherings and colloquiums. The M.A. program provides an overview of the literary history of our culture in addition to a series of seminars on theoretical topics in which students and faculty together con-

sider what constitutes the discipline of literary criticism. The program of the M.F.A. in Creative Writing includes work in fiction, poetry, and film; workshops with distinguished visiting writers; internships; and coursework in literature and in the arts of translation and literary journalism. It also offers students opportunities to give public readings, to meet with editors and publishers, and to produce a nationally known literary magazine.

In addition, the department offers two degree programs in the study of film, which take advantage of the impressive film resources of the Washington area. The B.A. in Literature: Cinema Studies is an interdisciplinary major combining course work in cinema and video criticism and history with experience in production; graduates of the program have gone on to work in such careers as film reviewing, theatre management, and film production. The M.A. in Film and Video, offered jointly with the School of Communication, is aimed at students with professional commitment to the field. The cinema programs show eighty to ninety feature films each semester and offer a full range of production facilities through the University Media Center.

The Visiting Writers Series

Each semester, the department sponsors public readings by nationally known poets, writers of fiction, and editors. These visitors also conduct workshops for graduate and undergraduate students of creative writing. Visiting writers during the 1988-1989 academic year were Mary Jo Salter, Madison Smartt Bell, Margaret Gibson, David McKain, and Andrew Hudgins. Distinguished Writers in Residence were Mary Morris and Marilyn Hacker.

B.A. in Literature

Admission to the Program

Formal admission to the major requires a 2.00 grade-point average and the approval of the department.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-two credit hours with grades of C or better. At least twenty-four of the forty-two hours must be taken at the 300-level or above.

Course Requirements

- 23.105 The Literary Imagination /A 1:1 (3) or 23.120 Interpreting Literature /A 1:1 (3)
- Three survey courses from the following: 23.210, 23.211, 23.115, 23.220, 23.221, 23.230, or 23.231. (At least one of these must be 23.115, 23.210, 23.220, or 23.230. A student may not count both 23.115 and 23.230 in fulfilling this requirement.)
- Four courses in literature written before 1900, of which at least two must be in literature written before 1800. Courses that fulfill this requirement must be at the 300 level or above.
- One course in either cinema studies or creative writing.
- Five other courses offered or approved by the Department of Literature.

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Literature: Cinema Studies

Admission to the Program

Formal admission to the major requires a 2.00 grade-point average and the approval of the Cinema Studies Committee.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.

- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-five credit hours with grades of C or better.
- A 3.00 average maintained in the major requirements.

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 23.105 The Literary Imagination /A 1:1 (3)
or
23.120 Interpreting Literature /A 1:1 (3)
- 23.135 Critical Approach to the Cinema /A 1:1 (3)
- 23.376 National Cinema (3)
- 23.378 Major Filmmakers (3)
- 23.380 Independent Filmmakers (3)
- 17.430 Photography: The Lens and Image (3) and
- 17.431 Basic Film and Audio Production (3)
or
17.558 History of Motion Pictures I (3) and
17.559 History of Motion Pictures II (3)
- 23.375 Film and Literature (3)
or
23.402 Creative Writing: Film Script (3)
- 23.377 Popular Film Genres (3) or, by permission of adviser, a special topics course in film.
- 17.511 History of Documentary Film (3)
or
17.512 Television Documentary (3)
- Three additional courses in literature. With the adviser's approval, one of these may be a literature course taught in a foreign language.
- One course in theatre, music, or photography.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Literature

Requirements

- 23.105 The Literary Imagination /A 1:1 (3)
or
23.120 Interpreting Literature /A 1:1 (3)
- One course selected from the following:
23.115 Remarkable Literary Journeys /A 2:1 (3)
23.210 Major American Writers I: An Introductory Survey (3)
23.211 Major American Writers II: An Introductory Survey (3)
23.220 Major British Writers I: An Introductory Survey (3)
23.221 Major British Writers II: An Introductory Survey (3)
23.230 Major European Writers I: An Introductory Survey (3)
23.231 Major European Writers II (3)
- Twelve credit hours in literature (nine hours must be at 300 level or above).

Not more than one course in creative writing may be counted toward the minor.

Minor in Cinema Studies

Requirements

- 17.200 Writing for Mass Communication (3)
- 23.135 Critical Approach to the Cinema /A 1:1 (3)
- Four courses from the following:
23.375 Film and Literature (3)
23.376 National Cinema (3)
23.377 Popular Film Genres (3)
23.378 Major Filmmakers (3)
23.380 Independent Filmmakers (3)
23.402 Creative Writing: Film Script (3)
- Two courses from the following:
17.430 Photography: The Lens and Image (3) (taken with 17.431)
17.431 Basic Film and Audio Production (3) (taken with 17.430)
17.511 History of Documentary Film (3)
17.512 Television Documentary (3)
17.558 History of Motion Pictures I (3)
17.559 History of Motion Pictures II (3) or another visual media course approved by adviser.

Undergraduate Certificate in Technical Writing

Admission to the Program

Open to students with a high-school diploma or the equivalent.

Certificate Requirements

- Nineteen credit hours of approved undergraduate study.
- A portfolio of documents prepared for courses.
- One approved noncredit workshop offered by the Office of Continuing Studies.

Course Requirements

- 23.201 Advanced Writing Workshop (3)
- 23.203 Business Writing (3)
- 23.496 Selected Topics (Nonrecurring): Introduction to Technical Materials (3)*
- 23.403 Technical and Report Writing (3)
- 17.532 Publication Layout and Design (3)
- 40.260 Introduction to Computing (4)
- How to Get and Communicate Information (noncredit)
- Public Speaking (noncredit)

*This course is being offered under an experimental number until a permanent course can be established. For a description, see the *Schedule of Classes* for the semester of course offerings.

M.A. in Literature

Admission to the Program

Applicants for admission should have a 3.00 grade-point average (on a 4.00 scale) in undergraduate literature courses. The Graduate Record General Examination is recommended. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will also be considered, provided that substantial study of literature has been done. Two letters of recommendation are required. Part-time as well as full-time students are welcome in the program.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.
- Two written comprehensive examinations, which are usually taken in the final semester of study. The examinations are based upon a reading list prepared by the department.
- Thesis option: A two-semester project involving independent research under faculty direction (three credit hours) and thesis writing (three credit hours, 23.797).

Nonthesis option: Six additional credit hours of course work and a critical essay of fifteen to twenty pages involving both research and independent thought. The essay may represent a careful revision of a paper prepared in the normal course of M.A. degree study.

Course Requirements

- At least four graduate seminars (23.7xx or 23.5xx), chosen from among those offered on a rotating basis by the department. Graduate seminar credit will also be given for participation in Folger Institute seminars.
- Twelve additional credit hours of graduate seminars, advanced literature courses (23.500 through 23.796), and independent reading courses or study projects.

With permission of the departmental adviser, a student may take up to six graduate credit hours outside the Department of Literature.

- Six additional credit hours to fulfill the thesis or nonthesis option.

M.A. in Film and Video

Offered jointly by the Department of Literature and the School of Communication.

Admission to the Program

An undergraduate grade-point average (on a 4.00 scale) of 3.00 for the last two years of study is required. Previous exposure to film study, film and video production, or script writing is not required, although all applicants are required to show evidence of professional commitment and career direction related to their program of study.

Admission is not limited to full-time students; however, those admitted will normally be expected to complete the program (thirty-three credit hours) within a twenty-four month period.

Address inquiries to Master's Program in Film and Video Committee, School of Communication.

A graduate application packet and a graduate film and video program brochure are available on request. The brochure describes a thousand-word statement of purpose required of all applicants to this program and provides a more detailed explanation of the purpose and content of the program. The statement of purpose (two copies) should be sent to the committee of the master's program in film and video.

Further inquiries should be addressed to the Office of Admissions and Financial Aid, to the School of Communication, or to the Department of Literature.

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work.
- One comprehensive examination, 17.004 Film and General Communication.
- Thesis option: six credit hours in thesis research with a grade of B or better.

Nonthesis option (students specializing in the areas of script writing or production): six hours involving an original creative work with a grade of B or better.

Course Requirements

- Courses are selected from the following areas, with emphasis determined by the student's interest: film production; video production; film theory, history, and criticism; and script writing.

While a student may emphasize one of these areas in the design of an individual program, the program must include courses from all four areas. A student's program may also include courses in related areas such as performing arts. Students without experience in visual media at the undergraduate level are required to take 17.630 Photography: The Lens and Image and 17.631 Basic Film and Audio Production at the beginning of their regular program. These courses do not count towards the thirty-three credit hours required for the degree.

Note also: Film and video courses in the School of Communication and in the Department of Literature.

M.F.A. in Creative Writing

Admission to the Program

Applicants for admission should have at least a 3.00 grade-point average (on a 4.00 scale) in undergraduate courses. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will be considered. Two letters of recommendation are required. Submission of samples of previous writing is required (thirty pages of fiction or fifteen pages of poetry) and an evaluation of these samples will have an important bearing on admission of applicants to the program.

Degree and Major Requirements

- A total of forty-eight credit hours of approved graduate work.
- Advancement to candidacy is automatic on admission to the program, but subject to yearly review.
- A book-length manuscript of fiction, poetry, or drama, to be approved by the creative writing faculty.
- One oral examination on the candidate's manuscript: its merits, characteristics, and relations to the works of others.

Course Requirements

- Twelve credit hours in writing workshops:
23.700 Advanced Fiction Workshop
23.701 Advanced Poetry Workshop
23.702 Creative Writing: Film Script

Students may concentrate on one genre or work in several.

- Twelve credit hours in literature courses selected from among the regular graduate-level literature offerings of the department.

- 23.705 Seminar on Translation (3)
- 23.710 Art of Literary Journalism (3) (or Freelance Writing)
- 23.691 Graduate Internship (6)

Possible internship sites include the Writer's Center in Bethesda, the Folger Shakespeare Library, the Library of Congress, the Writers-in-the-Schools programs, and affiliations with in-house and trade publishers.

- Six credit hours from the following:

Additional writing workshops, offered here or elsewhere.

Additional courses in literature, cinema studies, or performing arts.

With the approval of an adviser, courses in foreign languages, journalism, or in any other discipline which seems germane to the individual student's interest and consistent with the objectives of the program.

- Six credit hours of Master's Thesis Seminar.

Graduate Certificate in Technical Writing

Admission to the Program

Open to students with a bachelor's or advanced degree from an accredited institution.

Certificate Requirements

- Fifteen credit hours of approved graduate study.
- A portfolio of documents prepared for courses.
- Two approved noncredit workshops offered by the Office of Continuing Education and Conferences.

Course Requirements

- 42.696 Selected Topics (Nonrecurring): Introduction to Technical Materials (3)*
- 23.703 Technical and Report Writing (3)
- 17.532 Publication Layout and Design (3)
- 40.696 Selected Topics (Nonrecurring): Computer Applications for Technical Writers (3)*
- 40.696 Software Development (3)*
- How to Get and Communicate Information (noncredit)
- Public Speaking (noncredit)

*These courses are being offered under experimental numbers until permanent courses can be established. For descriptions, see the *Schedule of Classes* for the semester of course offering.

Mathematics

Chair Basil P. Korin

Full-time Faculty

Professor J. Blum (Emeritus), D.S. Crosby, M.W. Gray, R.A. Holzager, R.W. Jernigan, B.P. Korin, G. Quinn (Emerita), S.H. Schot, A. Wu

Associate Professor A.M. Barron, I.L. Chang, L.J. Crone, M. Greene

Assistant Professor S. Casey, A. Enayat, M. Frame, C. McCreary, H. Wilson

Instructor F. Awartani, R. Modarres-Hakimi

The Department of Mathematics and Statistics combines the resources and knowledge of these related disciplines. This enables the department to offer unusually varied and flexible programs. A student with an interest in the mathematical sciences may choose a program within the department and later change his or her emphasis without a great loss of time because the programs share a common core.

The university's Washington, D.C., location affords the student access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment opportunities for students with a firm grounding in the mathematical sciences.

Mathematics may be studied as an intellectual discipline for its own sake or as a professional tool for application to the problems of other disciplines. Majors in Mathematics will receive firm grounding in the theory and techniques of algebra, analysis, and other fields as a basis for further work in pure or applied mathematics and for graduate studies. The major in Applied Mathematics offers training in mathematical problem-solving techniques without emphasis on abstract theory. This program is not as firm a foundation for graduate work as the mathematics major, but is tailored to the student who will need to apply mathematical, statistical, and computer methods to practical problems.

Undergraduates majoring in Mathematics may choose a variant of the standard curriculum, supplemented by courses in education and in psychology, to be certified as secondary teachers.

Special Opportunities

The department employs a number of its undergraduates in its tutoring lab and in the computer labs. The department also offers a limited number of book scholarships to its undergraduates. Applications should be submitted by the end of July preceding the academic year for which aid is requested. Work-study awards are also available. For more information, consult the financial aid office.

B.S. in Mathematics

Admission to the Program

Requires a 2.00 cumulative grade-point average and the completion of 41.221, 41.222, and 41.223 with grades of C or better.

Tracks

- Mathematics or Secondary Mathematics Teaching

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-eight credit hours with grades of C or better for mathematics. A total of fifty-eight hours for secondary mathematics teaching certification.

Course Requirements

Mathematics

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.512 Introduction to Modern Algebra I (3)
- 41.513 Introduction to Modern Algebra II (3)
- 41.520 Introduction to Analysis I (3)
- 41.521 Introduction to Analysis II (3)
- Four courses selected from the following, with at least one from each of the following groups:

Group A

- 40.460 Introduction to Numerical Methods (3)
- 41.321 Differential Equations (3)
- 41.501 Probability (3)
- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)
- 42.502 Introduction to Mathematical Statistics (3)

Group B

- 41.322 Advanced Calculus (3)
- 41.515 Number Theory (3)
- 41.540 Topology (3)

- Three courses in a field of application, to be selected in consultation with the adviser. (This requirement may be waived for students with more than one major in this department and for students obtaining secondary teaching certification in mathematics.)

Secondary Mathematics Teaching

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 41.512 Introduction to Modern Algebra I (3)
- 41.520 Introduction to Analysis I (3)
- 41.540 Topology (3)
- 40.280 Introduction to Computer Science I (4)
- 42.502 Introduction to Mathematical Statistics (3)
- Two additional approved mathematics electives.
- Courses required for secondary teaching certification:
 - 21.200 School and Society /S 4:2 (3)
 - 21.320 Psychology of Education (3)
 - 21.340 Methods and Materials in Secondary Education: General and Special: Mathematics (3)
 - 21.599 Student Teaching (9)

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education section in this publication for information.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.S. in Applied Mathematics

Admission to the Program

Requires a 2.00 cumulative grade-point average and the completion of 41.221, 41.222, and 41.223 with grades of C or better.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-nine credit hours with grades of C or better.

Course Requirements

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.321 Differential Equations (3)
- 41.501 Probability (3)
- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)
- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.460 Introduction to Numerical Methods (3)
- 42.502 Introduction to Mathematical Statistics (3)
- Three additional mathematics electives, to be selected in consultation with the student's adviser.
- Related Courses*
 - 51.110 University Physics I /N 5:1 (3)
 - 51.111 General Physics Laboratory I 5:1 (1)
 - 51.210 University Physics II /N 5:2 (3)
 - 51.211 General Physics Laboratory II 5:2 (1) (or alternative science courses if approved by adviser)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Mathematics

Requirements

- 41.310 Linear Algebra (3)
- 41.221 Calculus I /N (4) and
- 41.222 Calculus II /N (4) or
- 41.211 Applied Calculus I /N (4) and

41.212 Applied Calculus II /N (3)

- Three courses numbered 41.xxx at the 300 level or above.

Minor in Quantitative Methods

Course Requirements

- 41.310 Linear Algebra (3)
- 40.260 Introduction to Computing /N (4)
or
40.280 Introduction to Computer Science I /N (4)
- 41.221 Calculus I /N (4) and
- 41.222 Calculus II /N (4)
or
41.211 Applied Calculus I /N (4) and
41.212 Applied Calculus II /N (3)
- Two courses in statistics numbered 42.3xx or above (for limitation on statistics courses that may be chosen, see description of statistics minor).

Five-Year Programs

Admission to Programs

The five-year programs enable qualified undergraduates (students with a grade-point average of 3.2 on a 4.0 scale in major courses) to earn both a bachelor's and a master's degree within five years. There are several options available: the student may choose the same major at the undergraduate and graduate level; the student may enter the master's program in computer science with an undergraduate major in mathematics; or the student may enter the master's program in statistics with an undergraduate major in mathematics. All students should apply by the end of the junior year.

B.S./M.A. in Mathematics

Additional Admission Requirements

Applicants must have completed 41.512, 41.513, 41.520, and 41.521 by the end of the junior year.

Degree and Major Requirements

- A total of seventy-two hours of course work.
- An approved tool of research.
- Comprehensive examination.
- Thesis option: Six hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis.

Nonthesis option: Three credit hours in 41.690 Independent Study Project in Mathematics or 41.700 Sem-

inar in Mathematics, requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

- All requirements for the B.S. in mathematics. Senior-year courses must include a one-year major course sequence acceptable towards a master's degree, but to count towards the B.S. only.
- Eighteen credit hours of graduate courses in mathematics.
- Six credit hours of course work to fulfill the thesis or nonthesis option.

B.S./M.A. in Applied Mathematics

Additional Admission Requirements

This option is not open to those students who followed the curriculum for Secondary Mathematics Teaching.

Degree and Major Requirements

- A total of eighty-three credit hours of course work.
- An approved tool of research.
- Comprehensive examination.
- Thesis option: Six hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis.

Nonthesis option: Three credit hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

- All requirements for the B.S. in applied mathematics, applications track.
- Twelve credit hours of graduate courses in mathematics.
- Six credit hours chosen within the department or an application area approved by the department.
- Six credit hours of course work to fulfill the thesis or nonthesis option.

B.S./M.A. in Statistics or Mathematics and Statistics

For a description of this program, see "Statistics" in this publication.

B.S./M.S. in Mathematics and Computer Science

For a description of this program, see Department of Computer Science and Information Systems in this publication.

M.A. in Mathematics

Admission to the Program

Requires an undergraduate degree in mathematics. Students entering the M.A. program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

Degree and Major Requirements

- A total of thirty credit hours of graduate course work including thesis or nonthesis option requirements.
- Proficiency in Russian, German, French, or an approved computer language as a tool of research.
- A written comprehensive examination in either mathematics, 41.050, or applied mathematics, 41.051.
- Thesis option: Six hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis.

Nonthesis option: Three credit hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics (topic to be chosen in consultation with a faculty member) requiring an oral and written presentation of the research work. Three hours in approved graduate-level independent research, seminars, or research courses.

Ph.D. in Mathematics Education

Admission to the Program

A master's degree in either education or mathematics and two letters of recommendation are required.

Degree and Major Requirements

At least forty-five credit hours of approved graduate work in addition to credit earned for the master's degree.

- Proficiency in two tools of research.

One tool must be statistics, satisfied by satisfactory completion (B or better) of the statistics courses described below or by passing an examination given by the Department of Mathematics and Statistics. The second tool may be French, German, Russian, Spanish, or an approved computer language.

- Four comprehensive examinations: Mathematics for Mathematics Education; Mathematics Education; oral examination administered by the Department of Mathematics and Statistics; any comprehensive examination regularly given by the School of Education, the Department of Psychology, or by the Department of Computer Science and Information Systems. In special cases, depending on experience and interest, other fields are available.
- Dissertation directed by a full-time faculty member and an oral defense of the dissertation.

Course Requirements

- 41.585 Mathematics Education (3)
- 41.685 Practicum (3)
- 41.790 Research Seminar in Mathematics Education (3)
- 41.513 Modern Algebra II (3)
- 41.521 Introduction to Analysis II (3)

Approved mathematics courses may be substituted for 41.513 and 41.521 if the students previous work includes these courses.

- 42.515 Regression (3)
- 42.516 Design of Experiments (3)
or
41.501 Introduction to Probability (3) and
42.502 Introduction to Mathematical Statistics (3)

Approved statistics courses may be substituted for 41.515, 42.516, 41.501, and 42.502 if the student's previous work includes these courses.

- Twelve additional hours of approved course work in mathematics, statistics, computer science, education, psychology, or other relevant fields.

This course work might include,

for college teaching:

- 21.620 Advanced Psychology of Education (3)
- 21.583 Curriculum Construction and Program Design (3)
- 21.587 Analysis of Instruction and Training (3)
- 21.566 Seminar: Cultural Factors in Higher Education (3)

for education administration:

- 21.631 Introduction to Administration in Education, Training, and Development (3)
- 21.587 Analysis of Instruction and Training (3)

Performing Arts: Music, Theatre, Dance, and Arts Management

Chair Valerie Morris

Full-Time Faculty

Professor C. Crowder, E.S. Hayes (Emerita), A.R. Mandel, H. Mardiroslan, V.E. Mason (Emeritus), J.L. McLain (Emeritus), N. Prevots, J. Sapciyevski, G.C. Schuetze, G. Smith (Emeritus), E. Vrenios

Associate Professor K. Baker, B. Baranovic, V. Morris

Assistant Professor G. Humphries, A. McDonald, R. Walsh

The Department of Performing Arts provides intensive professional training in each of its disciplines: music, theatre, dance, and arts management.

The programs offer a unique blend of classroom work and performance experience. Each year a season of plays, orchestra and choral concerts, opera, and dance concerts augments classroom learning with actual experience. Similarly, the graduate Arts Management program provides hands-on experience through field studies and an internship with a local or national arts organization.

The Visiting Artists and Artists-in-Residence programs in the Department of Performing Arts provide students with opportunities to meet and work with well-known professionals in each of the disciplines. Guest artists have included Twyla Tharp, Nina Wiener, Jim May, and Erick Hawkins. For musicians, internationally acclaimed composer Jerzy Sapciyevski collaborates with the Physics Department in directing the AU Music Lab, which gives the students opportunities to experiment with new sound technology. The Washington Music Ensemble, in residence at the university, features faculty members Alan Mandel and Elizabeth Vrenios. In addition, master classes are held with famous musical performers such as Elizabeth Schwarzkopf and Leon Fleischer. Special opportunities for performance include participation in the department's musical theatre troupes Pizzazz and Creative Company. The companies have performed for inaugural events, corporate functions, and special galas. Theatrical guest artists have included Mabou Mines, Joshua Logan, Richard Schechner, Herb Edelman, and Cliff Fannin Baker.

The dynamic interaction of performance experience, theoretical and historical understanding, and exposure to well-established professionals is designed to prepare the student for a professional or teaching career. The Washington, D.C., area is the home of many arts organizations, including the John F. Kennedy Center for the Performing Arts, the Washington Ballet, the Wolf Trap Farm Park for the Performing Arts, the National Symphony, and The Arena Stage. In addition, Washington, D.C., hosts many international artists and performing arts groups. This environment provides an excellent climate for the nurturing of the creative spirit.

B.A. in Music

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-nine credit hours with grades of C or better.

Course Requirements

- 67.110 Understanding Music /A 1:1 (3)
 - 67.124 Music Theory I: Basic Harmony and Analysis (3)
 - 67.125 Music Theory II: Continuing Harmony (3)
 - 67.127 Musicianship I (3)
 - 67.128 Musicianship II (3)
 - 67.205 Masterpieces of Music /A 1:2 (3)
 - 67.227 Musicianship III (3)
 - 67.228 Musicianship IV (3)
 - 67.320 Music Theory III: Modal Counterpoint (3)
 - 67.321 Music Theory IV: Tonal Counterpoint (3)
 - 67.322 History of Music I (3)
 - 67.323 History of Music II (3)
 - 67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3)
 - 67.325 Music Theory VI: The Twentieth Century (3)
- Any of these courses may be waived by examination.
- Four semesters of applied music.
 - Two semesters from the following:
67.142 University Chorale (1)
67.143 University Singers (2)
67.144 University Orchestra (1)
 - Two additional semesters in any faculty-conducted ensemble.
 - Nine credit hours of electives in music.

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education

chapter in this publication for information.

Note: Students intending to pursue graduate work in music are advised to fulfill the more extensive requirements of the B.Mus. degrees.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Bachelor of Music (B.Mus.)

Tracks

Composition, Music History, Performance (piano, voice, strings, brass, woodwinds, percussion, organ, harp, guitar, harpsichord, and conducting), and Theory.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of at least fifty-nine credit hours (or more, depending on the chosen track) with grades of C or better.
- Senior comprehensive examination in music history and theory.
- Recital or half recital. Students must register in a major applied music area in the semester the recital is given. See requirements listed in individual tracks.

Course Requirements

- 67.110 Understanding Music /A 1:1 (3)
- 67.124 Music Theory I: Basic Harmony and Analysis (3)
- 67.125 Music Theory II: Continuing Harmony (3)
- 67.127 Musicianship I (3)
- 67.128 Musicianship II (3)

- 67.205 Masterpieces of Music /A 1:2 (3)
- 67.227 Musicianship III (3)
- 67.228 Musicianship IV (3)
- 67.320 Music Theory III: Modal Counterpoint (3)
- 67.321 Music Theory IV: Tonal Counterpoint (3)
- 67.322 History of Music I (3)
- 67.323 History of Music II (3)
- 67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3)
- 67.325 Music Theory VI: The Twentieth Century (3)
- 67.326 Orchestration (3)

Any of the above may be waived by examination.

- Participation in one faculty-conducted ensemble for each semester of full-time attendance here (or the equivalent for part-time attendance), one half or more of this participation being in 67.142 University Chorale (1), 67.143 University Singers (2), or 67.144 University Orchestra (1).

Composition

- Four semesters of 68.122 Private Instrumental or Vocal Study for eight credit hours.
- Four semesters of 68.444 Composition and 67.524 Studies in Music Theory.
- 67.537 Music: Analytical Studies (3)
- Full recital of original compositions.

Music History

- Three of the following:
67.520 Studies in Music Literature (3)
67.529 Medieval Music (3)
67.530 Renaissance Music (3)
67.531 Music of the Baroque Era (3)
67.532 Music of the Classical Era (3)
67.533 Music of the Romantic Period (3)
67.534 Music of the Twentieth Century (3)
67.535 Studies in Music History (3)
67.536 Research Methodology in Music (3)
- Half recital.

Performance

- 67.543 Pedagogy I (2)
- 67.544 Pedagogy II (2)
- Half (junior) recital
- Full (senior) recital.

Theory

- 67.524 Studies in Music Theory (3)
- 67.537 Music: Analytical Studies (3)
- 68.444 Composition (3)
- Half recital

Recommendations

Registration in major applied area each semester. Read-

ing knowledge of German for music history specialists. Study of French, German, and Italian diction for voice and accompanying specialists.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Music

Requirements

- Twenty-four credit hours in music with at least twelve hours at the 300 level or above, including at least twelve credit hours from the following:
68.100 Class Instrumental Study (1)
68.101 Class Vocal Study (1)
68.121 Private Instrumental or Vocal Study (1)
68.122 Private Instrumental or Vocal Study (2)
67.124 Music Theory I: Basic Harmony and Analysis (3)
67.125 Music Theory II: Continuing Harmony (3)
67.322 History of Music I (3)
67.323 History of Music II (3)
67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3)
- At least twelve of the required twenty-four credit hours must be taken in residence at The American University. Students must be assigned a departmental adviser if they intend to pursue the minor.

B.A. in Performing Arts: Theatre

Admission to the Program

Requires some previous theatre experience and demonstrated talent during a one-year probationary period.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of at least thirty-two credit hours with grades of C or better.
- Participation in one theatre program production each semester and stage manager or assistant stage manager of one of these productions before graduation.

Course Requirements

- 67.115 Theatre: Principles, Plays, and Performance /A 1:1 (3)
- 67.251 Fundamentals of Acting I (3)
- 67.260 Principles of Production I (4)
- 67.352 Beginning Directing (3)
- 67.365 Theatre History I (3)
- 67.366 Theatre History II (3)
- 67.367 Modern American Theatre and Drama (3)
- A total of four credit hours in theatre practicum (no more than one hour a semester) as approved by theatre faculty (one hour in each of the following areas: set construction and lighting, costuming, public relations, and stage management).
- Six credit hours in technical/design areas.
- The remainder of departmental course requirements are determined by close counsel with the adviser.

Teacher Certification

Students interested in teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information. The student's program is coordinated by the theatre program and the School of Education.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Theatre

Requirements

- Twenty-five credit hours in theatre with a minimum of twelve hours at the 300 level or above, as follows:
67.115 Theatre: Principles, Plays, and Performance /A 1:1 (3)
- 67.251 Fundamentals of Acting I (3)
- 67.260 Principles of Production I (4)

- 67.450 Rotating Topics in Theatre (3)
or
67.557 Creative Writers' Performance Laboratory (3)
- One of the following:
67.361 Costume Design (3)
67.362 Lighting Design (3)
67.363 Scene Design (3)
- One of the following:
67.350 Scene Study (3)
67.351 Movement for Actors (3)
67.355 Speech and Voice for the Theatre (3)
67.450 Rotating Topics in Theatre (3)
- Two of the following:
67.365 Theatre History I (3)
67.366 Theatre History II (3)
67.367 Modern American Theatre and Drama (3)

At least twelve of the required twenty-five credit hours must be taken in residence at The American University. Students must be assigned a departmental adviser if they intend to pursue the minor.

Minor in Dance

Requirements

- Twenty-four credit hours in dance with at least twelve hours at the 300 level or above, including:
67.506 The Moving Body (3)
67.507 Principles of Movement (3)
- 67.411 Composition of Dance I (3)
or
67.412 Composition of Dance II (3)
- 67.305 History and Philosophy of Dance I (3)
or
67.306 History and Philosophy of Dance II (3)
- At least twelve of the required twenty-four credit hours must be taken in residence at The American University.
- Students must be assigned a departmental adviser if they intend to pursue the minor. Each student completing the minor must achieve some proficiency in dance performance. Required levels of proficiency are decided individually in conference with the director of the dance program, and take into account the student's interests, background, and abilities in dance.

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information. The student's program is coordinated by the dance program and the School of Education.

M.A. in Performing Arts: Dance

Admission to the Program

Requires a bachelor's degree with eight to ten courses or the equivalent in undergraduate dance, theatre, or music, half of which must be in dance. Equivalent training is understood to be four to six years' experience in a professional company or organization. Students entering the program with this background will be asked for an interview, at which time any deficiencies will be determined. Two letters of recommendation are required. Provisional admission may be granted and is removed at the completion of twelve credit hours of work in the department with a grade-point average of 3.00 on a 4.00 scale.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work.
- Courses are based on the student's chosen area of focus and are selected in consultation with an adviser.
- Students are urged to structure their degree programs so as to develop individual talent and may do so in close counsel with their advisers.
- Advancement to candidacy on completing twelve to eighteen credit hours with a grade-point average of 3.00 or better on a 4.00 scale, removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser.
- A four-hour comprehensive examination covering three areas as determined by the student and adviser.
- Thesis option: 67.797 Master's Thesis Seminar and a written research project in the field of history, criticism, performance and choreographic theory, methods of teaching, body knowledge, or related areas approved by the adviser, committee, and the department graduate studies committee before work begins.
- Nonthesis option: 67.798 Nonthesis Option Seminar which may include a performance in the area of the student's specialization, e.g., choreography or dance performance approved by the adviser, committee, and the department graduate studies committee before work begins. The completed project includes a written production book.

Special Opportunities

Information regarding graduate assistantships in dance is available from the department.

M.A. in Music

Admission to the Program

Composition specialists must submit three or more original works of different kinds. Two letters of recommendation are required. Performance specialists must audit

tion, either in person or by tape recording. Depending on previous experience, a student may be admitted with deficiencies which must be removed by appropriate course work or by waiver examination. During the first week of graduate work all new students are required to take the Graduate Placement Examination in Theory and History, unless waived by the director of music, to determine possible deficiencies in these basic areas.

Tracks

Composition, Musicology, Performance (piano, strings, brass, woodwinds, percussion, organ, harp, guitar, harpsichord, and conducting), Theory, and Piano/Vocal Pedagogy.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.
- Advancement to candidacy on completing twelve to eighteen credit hours with a grade-point average of 3.00 or higher on a 4.00 scale, removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser.
- Proficiency in German, French, or an approved substitute is required as a tool of research for students writing a musicology thesis.
- Two comprehensive examinations: one in music history and theory, and one in student's field of specialization taken during or after the semester in which the required course work is completed and before registering for 67.749, 67.797, or 67.798. The second examination for performance specialists is the Master's Recital.
- Thesis or an approved substitute.

Composition Track: 67.798 Nonthesis Option Seminar (a large composition with a jury or public performance)

Musicology Track: 67.797 Master's Thesis Seminar

Performance Track: 67.797 Master's Thesis Seminar or 67.749 Research Performance: Lecture Recital.

Theory Track: 67.797 Master's Thesis Seminar

Piano/Vocal Pedagogy Track: 67.797 Master's Thesis Seminar or 67.798 Nonthesis Option Seminar.

Course Requirements

Composition

- 67.537 Music: Analytical Studies (3)
- 68.794 Advanced Composition (3)
- Eighteen credit hours of electives to complete twenty-four credit hours of course work.
- Six credit hours to fulfill the nonthesis option.

Musicology

- 67.536 Research Methodology in Music (3)

- Four or more of the following (graduate-level music history and literature courses):
67.520 Studies in Music Literature (3)
67.529 Medieval Music (3)
67.530 Renaissance Music (3)
67.531 Music of the Baroque Era (3)
67.532 Music of the Classical Era (3)
67.533 Music of the Romantic Period (3)
67.534 Music of the Twentieth Century (3)
67.535 Studies in Music History (3)

- Nine credit hours of electives to complete twenty-four credit hours of course work.

- Six credit hours to fulfill the thesis option.

Performance

- 67.536 Research Methodology in Music (3)
- 67.537 Music: Analytical Studies (3)
- 67.543 Pedagogy I (2)
- 67.544 Pedagogy II (2)
- Four to six credit hours of applied music at the graduate level (67.527 Advanced Conducting, for conducting specialists).
- Eight to ten credit hours of electives to complete twenty-four credit hours of course work.
- Six credit hours to fulfill the thesis or nonthesis option.

Theory

- 67.524 Studies in Music Theory (3)
- 67.536 Research Methodology in Music (3)
- 67.537 Music: Analytical Studies (3)
- Fifteen credit hours of electives to complete twenty-four credit hours of course work.
- Six credit hours to fulfill the thesis option.

Piano/Vocal Pedagogy

- 67.536 Research Methodology in Music (3)
- 67.543 Pedagogy I (2)
- 67.544 Pedagogy II (2)
- 67.547 Pedagogy III (3)
- 67.528 Diction for Singers (2)
or
Advanced Chamber Music
- Six credit hours of applied music at the graduate level; supervised teaching.
- Fifteen credit hours of electives to complete twenty-four hours of course work.
- Six credit hours to fulfill the thesis or nonthesis option.
- Two half-recitals

Note: Course work may not include more than four credit hours of 67.545, more than four credit hours of graduate-level applied music (six for performance and composition

majors), or more than six credit hours of graduate-level nonmusic courses or independent study (such courses must be approved in advance by the department chair).

M.A. in Performing Arts: Arts Management

Admission to the Program

Requires a bachelor's degree with nine or more undergraduate courses in theatre, dance, music, or visual arts, one-third of which must be advanced work or its equivalent. Equivalent training is understood to be four or more years experience in a professional company or organization. Students entering the program with this background will be asked for an interview at which time any deficiencies will be determined. Two letters of recommendation are required. Provisional admission may be granted and is removed at the completion of twelve credit hours of work with a grade-point average of 3.00 on a 4.00 scale.

Degree and Major Requirements

- A total of forty-five credit hours of approved graduate work.
- Advancement to candidacy on completing twelve to eighteen credit hours with a grade-point average of 3.00 or better on a 4.00 scale, removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser.
- A four-hour comprehensive examination covering three areas: arts management, administration, and an art area of specialization.
- 67.691 Performing Arts: Internship (6)
or
67.692 Cooperative Education Field Experience (1-6)
- A thesis written in conjunction with 67.797 Master's Thesis Seminar (6).

Course Requirements

- 67.570 Survey of Arts Management (3)
- 67.571 Promotion and Public Relations for Performing Arts (3)
- 67.672 Case Studies in Performing Arts Management (3)
- 67.673 Fund-Raising Management for the Arts (3)
- 67.585 Creative Theories and Criticism in Performing Arts (3)
- Two electives in nonmanagerial arts-related topics.
- Six credit hours to fulfill the thesis requirement.
- The remainder from courses in business administration, communications, public relations, or public administration.

Graduate Certificate in Arts Management

Admission to the Program

Students must have a bachelor's degree from an accredited college university and a 3.0 Grade Point Average (on a scale of 4.0) in the last sixty credit hours of study. They must have taken nine or more courses in theater, dance, music, or visual arts—one third of which should be advanced work or equivalent training. Equivalent training is four or more years experience in a professional organization. Application and official transcripts should be submitted to the University Programs Advisement Center. Students are also encouraged to schedule a personal interview with the program director.

Certificate Requirements

- Fifteen credit hours of approved graduate study.
- Two approved noncredit courses in Volunteer Management.

Course Requirements

- 67.570 Survey of Arts Management (3)
- 67.571 Promotion and Public Relations for Performing Arts (3)
- 67.672 Case Studies in Performing Arts Management (6) (Two case studies must be taken to satisfy this requirement.)
- 67.673 Fund-Raising Management for the Arts (3)
or
67.585 Creative Theories and Criticism in Performing Arts (3)
- 904 Supervisory Skills for Volunteer Managers (noncredit)
- One from the following:
 - 912 Fund-Raising for Nonprofit Organizations (noncredit)
 - 915 Proposal Writing for Nonprofit Organizations (noncredit)
 - Introduction to the IBM PC (noncredit)

Philosophy and Religion

Chair Charles S.J. White

Full-Time Faculty

Professor H.A. Durfee (William Frazier McDowell Professor), C.D. Hardwick, J.H. Reiman, T.R. Rosché, R.T. Simonds, C.S.J. White

Associate Professor G. Greenberg, D.F.T. Rodier, P.H. Scribner

Philosophy can be the avenue to develop skills in clear thinking and accurate writing. It offers the challenge of interpreting the work of the individuals who have created our intellectual traditions. Philosophy probes the nature of the real world, the basis of human values, and the foundations of reason. Students at The American University approach these issues through study of both historical literature and contemporary developments. Graduates of our undergraduate program pursue graduate work not only in philosophy but in such related areas as history and literature.

Many positions in science and industry require the kinds of analytical skills gained through the study of philosophy. Philosophy teaches precision in reasoning and clarity in expression—assets in any field. The study of philosophy has often preceded preparation for law, medicine, social work and the ministry, and other professional careers. In the humanities the study of philosophy leads to GRE skills similar to those in the sciences. The Washington Consortium of Universities also offers a wide variety of courses in philosophy that American University students can take.

Religion is not only for those planning professional careers in the field. The study of Western and Eastern religious traditions introduces students to a major influence on all civilizations. Few other university programs can so vividly set the American experience in a comparative cultural context. Future journalists, diplomats, and government specialists will benefit from a serious consideration of the inner workings of the religious ethos of civilizations. We are reminded by daily events that there is no more motivating factor in the cultures of nations than ardently held religious belief. A thorough understanding of the modern world requires familiarity with its religious heritage.

The American University's Washington setting is advantageous for the study of religion. Christian and Jewish groups maintain national offices in the capital; representatives of non-Western religions have shrines in the metropolitan area. The religious leadership centered in Washington, D.C., welcomes the interest of students in their way of life.

B.A. in Philosophy

Admission to the Program

The department counsels freshmen and new transfer students. Admission is through a formal declaration of major.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one

foundation course and one second-level course from each of five curricular areas.

- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of thirty-nine credit hours with grades of C or better or P (pass in courses taken pass-fail).

Course Requirements

- Thirty credit hours in philosophy and religion including up to nine credit hours in religion.
- Nine additional credit hours at the 300 level or above in a single department.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Religion

Admission to the Program

The department counsels freshmen and new transfer students. Admission is through a formal declaration of major.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of thirty-nine credit hours with grades of C or better or P (pass in courses taken pass-fail).

Course Requirements

- Thirty credit hours in religion and philosophy

including up to nine hours in philosophy or Jewish studies.

- Nine additional credit hours at the 300 level or above in a single department.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Philosophy

Requirements

- 60.100 Introduction to Logic (3)
- One course from the following:
60.105 Western Philosophy /A 2:1 (3)
60.300 Ancient and Medieval Philosophy /A (3)
60.301 Modern Philosophy from Bacon to Hegel /A (3)
- Fifteen credit hours in philosophy (or twelve credit hours in philosophy and three credit hours in religion). Twelve of the total credit hours must be at the 300 level or above.

Minor in Religion

Requirements

- Nine credit hours chosen from the following:
61.105 Religious Heritage of the West /A 2:1 (3)
61.150 Introduction to the Old Testament (3)
61.170 Introduction to the New Testament (3)
61.185 Forms of the Sacred: Religions of the East /A 3:1 (3)
61.220 Religious Thought /A 2:2 (3)
- Twelve credit hours in religion (or nine credit hours in religion and three credit hours in philosophy) at the 300 level or above.

M.A. in Philosophy

Admission to the Program

The candidate must meet the minimum university requirements for admission to graduate study as set forth elsewhere in this publication. Two letters of recommendation are required. The Graduate Record Examination (GRE) General is optional.

Degree and Major Requirements

- At least thirty credit hours of approved graduate work, including six hours of 60.797 Master's Thesis Seminar.
- Advancement to candidacy after successful completion of twelve credit hours of graduate work.
- Proficiency examination in French or German as a tool of research.
- One eight-hour examination in philosophy (administered on two days, four hours each day). Examination fields 60.01A and 60.01B.
- Thesis and oral defense of thesis.

M.A. in Philosophy and Social Policy

Admission to the Program

The minimum university requirements for admission to graduate study (see "Graduate Study"), at least one introductory course in philosophy with a grade of B or better, and two letters of recommendation. The Graduate Record Examination (GRE) is recommended.

Degree and Major Requirements

- Thirty-three hours of approved graduate work, including a three-hour internship in an appropriate setting (e.g., NIH, NIMH, a hospital, a prison) followed by a substantial paper analyzing the ethical and social issues arising in that experience. Students who are already employed full-time may request permission to receive credit for appropriate earlier work or volunteer experience, but the paper will still be required.
- One four-hour comprehensive examination in philosophy.
- Nonthesis requirement: six hours of independent research project, seminar, or other research courses approved by the department from required or elective courses.

Course Requirements

- 60.602 Nineteenth-Century Philosophy (3)
- 60.603 Twentieth-Century Philosophy (3)
- 60.620 Seminar on Ethical Theory (3)
- 60.625 Seminar on Modern Moral Problems (3)
- 60.641 Philosophy of the Social Sciences (3)
- 60.645 Seminar on Theories of Human Nature (3)
- Two elective graduate courses (six credit hours) in philosophy or religion, with departmental approval.
- Two courses in social science or social policy (six credit hours), chosen with departmental approval from fields such as economics, sociology, anthropology, government, public administration, justice.

M.A. in the History of Religions: Hindu Tradition

Admission to the Program

Suitable background in religious or South Asian studies. Applications are made directly to the Department of Philosophy and Religion. GRE General is recommended. Two letters of recommendation required.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work, including six credit hours of master's thesis seminar.
- Advancement to candidacy after successful completion of twelve credit hours of graduate work.
- An examination in either French or German (another modern language may be substituted with approval).
- Two semesters of either Sanskrit or Hindi. (When appropriate, this requirement may be waived by examination.)
- Comprehensive examination with the following three components, given during the last semester of course work: methods in the study of religions; the Hindu tradition; and thematic comparisons between the Hindu tradition and at least one other tradition of the student's choice.
- Thesis on one particular aspect of the Hindu tradition, submitted during the final semester of course work.

Course Requirements

Thirty credit hours of approved graduate-level course work at the member universities of the Consortium of Universities of the Washington Metropolitan Area, including:

- George Washington University course Rel. 158
- Georgetown University course 195-058
- Catholic University of America course 874
- The American University course 61.694 Graduate Seminar in Religious Studies (3-12)
- One course in methodology.
- Six credit hours of Master's Thesis Seminar at the student's home university (for American University students this is 61.797).

Physics

Chair Romeo A. Segnan

Full-Time Faculty

Professor R. Berendzen, E.R. Callen (Emeritus), M. Harrison (Emeritus), R.B. Kay, H.R. Reiss, R.A. Segnan, R.V. Waterhouse (Emeritus), J.A. White

Assistant Professor R.M. Kille, F.A. Volkering

Research Faculty

Research Professor R. Arnold, Z. Bay, S. Rock

Associate Research Professor P. Bosted, Z. Szalata

Physics and Physics Programs

Physics is the study of the basic properties of the physical universe: gravitation, electricity and magnetism, atomic and nuclear structure, and aggregate matter. The department supports three areas of research concentration: high energy nuclear physics in an outstanding collaborative program with the Stanford Linear Accelerator Center (SLAC); condensed matter physics with specializations in solid state magnetism and the study of phase transitions in systems near their critical points; and intense field/laser studies on the interaction of intense electromagnetic radiation with matter. All students are encouraged to participate in research.

There are two tracks in the B.S. major. The applied track has all of the pre-engineering components, including seventeen hours of electronics. It prepares students for many technical positions which currently exist in industry and government. The graduate preparation track is for students who plan to enter M.S. and Ph.D. programs. It includes more high-level courses in quantum physics, mechanics, and electricity and magnetism.

The department also offers a B.S. degree in Audio Technology. (See Audio Technology in this publication.)

Experimental and theoretical research projects are available for graduate students. The M.S. degree qualifies students for many research and development positions, including those at research laboratories. The Ph.D. degree is offered for students who have performed exceptionally in their M.S. work and who have obtained the sponsorship of a faculty member who will be the student's major professor. The department actively collaborates with many of the Washington-area research laboratories; in appropriate cases, dissertation and thesis research may be performed at these laboratories.

B.S. in Physics

Admission to the Program

The department counsels freshmen and transfer students. Formal admission to the program requires a 2.00 grade-point average and approval of the department undergraduate adviser.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-two credit hours with grades of C or better.

Course Requirements

- 51.110 University Physics I /N 5:1 (3)
- 51.210 University Physics II /N 5:2 (3)

51.110 and 51.210 may be waived for students with exceptional high-school preparation.

- 51.111 General Physics Laboratory I /N 5:1 (1)
- 51.211 General Physics Laboratory II /N 5:2 (1)
- 51.452 Advanced Laboratory (3)
- 51.501 Modern Physics (3)
- 51.502 Classical Mechanics (3)
- 51.503 Electricity and Magnetism (3)
- 15.110 General Chemistry I /N 5:1 (3)
- 15.111 General Chemistry I Laboratory /N 5:1 (1)
- 15.210 General Chemistry II /N 5:2 (3) and
- 15.211 General Chemistry II Laboratory /N 5:2 (1) (or equivalents)
- 15.410 Physical Chemistry I (3)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.321 Differential Equations (3)
- 40.260 Introduction to Computing /N (4)
or
- 40.280 Introduction to Computer Science I /N (4)

Options*Applied Physics Courses*

- 50.312 Analog Electronics I (3)
- 50.313 Analog Electronics II (3)
- 50.322 Analog Electronics Lab I (2)
- 50.323 Analog Electronics Lab II (2)
- 50.500 Digital Electronics (4)
- 50.501 Microprocessors (4)

Graduate Preparation Courses

- 51.530 Mechanics (3)
- 51.551 Electromagnetic Waves and Optics (3)
- 51.570 Introduction to Quantum Mechanics (3)
- 51.571 Special Topics in Applied Quantum Mechanics (3)
- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)

Other Recommendations

- 09.110 General Biology I /N 5:1 (3)
- 09.111 General Biology I Laboratory /N 5:1 (1)
- 09.210 General Biology II /N 5:2 (3)
- 09.211 General Biology II Laboratory /N 5:2 (1)
- 40.281 Introduction to Computer Science II /N (3)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Physics**Requirements**

- 41.221 Calculus I /N (4)
or
- 41.211 Applied Calculus I /N (4)
- 41.222 Calculus II /N (4)
or
- 41.212 Applied Calculus II /N (3)
- 51.105 College Physics I /N 5:1 (3)
or
- 51.110 University Physics I /N 5:1 (3)
- 51.111 General Physics Laboratory I /N 5:1 (1)
- 51.205 College Physics II /N 5:2 (3)
or
- 51.210 University Physics II /N 5:2 (3)
- 51.211 General Physics Laboratory II /N 5:2 (1)
- 51.501 Modern Physics (3)
- 51.502 Classical Mechanics (3)
or
- 51.503 Electricity and Magnetism (3)

M.S. in Physics**Admission to the Program**

Approval of the department graduate advisers is required. Two letters of recommendation are required unless the previous degree was earned in the department. The

department counsels entering graduate students.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.
- Two written comprehensive examinations: 51.001 Mechanics, Thermal and Statistical Physics, Mathematical Physics, and 51.002 Electromagnetism, Quantum Mechanics, Applications.
- Nonthesis option: six credit hours of advanced work approved by the department graduate advisers.

Thesis option: an approved thesis in conjunction with 51.797 Master's Thesis Seminar.

Course Requirements

- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)
- 51.530 Mechanics (3)
- 51.551 Electromagnetic Waves and Optics (3)
- 51.570 Introduction to Quantum Mechanics (3)
- 51.565 Basic Concepts in Statistical Physics (3)
or
15.546 Thermodynamics and Statistical Physics (3)
- Two courses from the following:
51.630 Mechanics I (3)
51.631 Mechanics II (3)
51.650 Electromagnetic Theory I (3)
51.651 Electromagnetic Theory II (3)
51.670 Quantum Mechanics I (3)
51.671 Quantum Mechanics II (3)
- Six credit hours to fulfill the thesis or nonthesis option.

Ph.D. in Physics

Admission to the Program

Approval of the department graduate advisers is required. Two letters of recommendation are required unless the previous degree was earned in the department. The department counsels entering graduate students.

Research Concentrations

Nuclear high energy experimental physics, condensed matter physics, and intense field/laser physics.

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work.
- Advancement to candidacy after qualifying examination and approval of the dissertation proposal by the department graduate advisers.
- Proficiency in a language or computer science or

another tool of research approved by the student's dissertation committee.

- The M.S. comprehensive examinations, 51.001 and 51.002, both passed with distinction.
- Four approved comprehensive examinations: 51.005, 51.006, 51.007, and 51.008 (oral) covering the subject area of the dissertation and material relevant to the area of research. The examinations 51.001 and 51.002 may be substituted for 51.005.
- Dissertation prepared in consultation with the student's dissertation committee and approved by that committee and the department graduate advisers.
- Specialized seminars in the area of research concentration coordinated with the student's major professor.

Course Requirements

- 51.630 Mechanics I (3)
- 51.631 Mechanics II (3)
- 51.650 Electromagnetic Theory I (3)
- 51.651 Electromagnetic Theory II (3)
- 51.670 Quantum Mechanics I (3)
- 51.671 Quantum Mechanics II (3)
- 51.799 Doctoral Dissertation Seminar (12)

Pre-engineering

Departmental Coordinators

Biology David Culver

Chemistry James Girard

Computer Science and Information Systems Richard Holzsgager

Mathematics and Statistics Austin Barron

Physics Romeo Segnan

Faculty Liaison Anita LaSalle (Physics)

Administrative Liaison Naomi S. Baron, Associate Dean for Undergraduate Affairs, College of Arts and Sciences.

The American University offers cooperative five-year pre-engineering programs through Washington University in St. Louis and the University of Maryland in College Park. Through these programs, American University students can combine the advantages of both liberal arts and professional education. Students are awarded two bachelor's degrees in a five-year period.

The Three-Two Program

Students spend three years on The American University campus concentrating in a major field in the College of Arts

and Sciences. In the third year, with recommendation for a pre-engineering adviser, students apply to the engineering program at either Washington University or the University of Maryland. After admission to the program, the fourth year of study is spent at the cooperating university. Once the student completes the requirements for the American University major (generally at the end of the fourth year), the first bachelor's degree is awarded. After completion of the pre-engineering requirements during the fifth year, the student receives a bachelor's degree in engineering from the cooperating university.

Plan of Study at The American University

Students work closely with a faculty adviser in one of the natural science departments, the Department of Mathematics and Statistics, the Department of Computer Science and Information Systems, or the office of the Associate Dean for Undergraduate Affairs. Advisers will individually tailor course selection to meet the student's interests and needs. Students are generally advised to major in either mathematics or natural science, and to maintain a high grade-point average. If, however, the student chooses to complete a major in the arts, humanities, or social sciences, he or she may do so, provided that the engineering program requirements are also satisfied. Completion of basic courses must be done during the first three years of study in order to complete the requirements for an engineering degree in five years. Courses with grades below C will not transfer to the cooperating schools.

Course Requirements

The engineering programs at Washington University and the University of Maryland have basic requirements which must be completed before entrance. The requirements cover a broad range of study.

Washington University

- English: evidence of ability to communicate effectively in written form as demonstrated by course work, acceptable examination scores, or college certification of proficiency.
- Calculus: sequence through multivariate calculus plus differential equations.
- Physics: a two-course sequence employing calculus and including laboratory.
- Chemistry: a two-course sequence including laboratory.
- Computer programming: one course in programming.
- Humanities and social sciences: at least eighteen hours. At least eight of the eighteen credit hours must be in one department, including one course at the junior or senior level. No more than nine credit hours of the performing arts or skill courses may count toward the required eighteen credit hours. Courses

having a distinctly mathematics or natural science content, even if listed under the humanities or social science department, are not acceptable for this requirement.

- For chemical engineering: two-course sequence in organic chemistry.

Special Opportunity

A student may also plan such combined degree programs as B.A./B.S./M.S. and B.A./B.S./M.B.A. by allowing six years for such programs.

University of Maryland

- English: two courses in English composition.
- Mathematics: two or three years of mathematics, including calculus and differential equations.
- Physics: two years of general physics with laboratory and more in-depth study in mechanics and in electromagnetism or thermodynamics.
- Chemistry: one year of general chemistry with laboratory.
- Computer programming: one course of programming.
- Humanities and social sciences: five courses in the humanities and the social sciences.
- For chemical engineering: two-course sequence in organic chemistry.

Prelaw

Prelaw Advising Prelaw advising is available from the prelaw advisers: Carl E. Cook in the College of Arts and Sciences, Arthur Harris in the Kogod College of Business Administration, Jean Kinnahan and Athena Smith in the School of Public Affairs.

In considering law school, it is important that the prelaw student understand law schools' educational philosophy. As the *Law School Admission Bulletin* states: "Any course, regardless of field, that helps you develop clear and systematic thinking, command of the English language, and a broad understanding of our society constitutes sound preparation for the study of law. Thus, law schools do not recommend specific undergraduate majors for prelaw students." The prelaw student should also realize that admission to law school is selective. Students contemplating careers in law should plan their undergraduate study to undertake a substantial academic curriculum and acquire a background of outstanding extracurricular activities.

Undergraduate Program in Prelaw

General Information

The student aspiring to the profession of law may select any major. The university does not offer a prescribed pre-law major.

The student interested in prelaw preparation follows the normal procedure for declaring a major in one of the schools or departments or in gaining approval for an interdisciplinary program of study.

By the end of the sophomore year, the prelaw student chooses a major. The student satisfies the requirements of this major as specified by the department or the approved interdisciplinary program. Whatever the choice of major, the prelaw student's program should be supported by a broad selection of courses from mathematics, natural sciences, social sciences, and the humanities.

Recommendations

Courses recommended by law schools include philosophy, literature and advanced writing courses, history, political science, accounting, business administration, economics, mathematics, languages, and other courses demanding logical thinking, analytical reasoning, or verbal proficiency.

The Law School Admission Test (LSAT) is required of every applicant to law school. It is strongly recommended that this test be taken in June before the senior year. With this test date, students can appraise their prospects and consider retaking the examination in October or December or both, or, if necessary, make alternative plans. Students apply directly to the Law School Admissions Service (LSAS) to take the test on The American University campus and should register six weeks before the test date. The Law School Admission Test applications are available in the offices of the prelaw advisers of the schools mentioned above. The *Pre-Law Handbook* published by the Law School Admissions Service is helpful in describing law schools and their requirements. This handbook is available in the offices of the prelaw advisers and in The American University campus book store. Also available from the prelaw advisers is the *Pre-Law Guide: Questions and Answers*, which discusses the preparation for law school, the mechanics of applying, and the law school experience itself.

Honor Society

Qualified sophomores, juniors, and seniors may apply for membership in the University's prelaw honor society, Sigma Phi Omega. The prelaw honor society sponsors various activities related to the law-school application process and the law-school experience. It also hosts guest speakers who discuss social issues as they relate to the legal profession. All programs sponsored by the prelaw honor society are open to the university community. Consult the School of Public Affairs for an application and additional information.

Premedical Programs

Coordinator Stephen C. Grebe (Biology)

Administrative Liaison Naomi S. Baron, Associate Dean for Undergraduate Affairs, College of Arts and Sciences

The College of Arts and Sciences' premedical programs prepare students for professional study in medicine, dentistry, and veterinary medicine. The premedical programs are open to students throughout the university. Traditionally, many premedical students have majored in the natural sciences. However, the medical professions are expressing increasing interest in students who come to their professional studies with broad-based liberal educations, reflecting the social, ethical, and cultural role played by physicians and other health care professionals in contemporary life.

Premedical Curriculum

Most health professional schools require the same foundation courses in mathematics and in the sciences, along with a full year of college-level writing. Science courses must include laboratory components. The following sequence of courses permits the most convenient means of completing the necessary required courses in time to take the Medical College Admissions Test (MCAT) or Dental Aptitude Test (DAT) in the spring of the junior year. Students not majoring in a science should follow the program outlined below.

Freshman Year

Fall

- 15.110 General Chemistry I / N 5:1 (3)
- 15.111 General Chemistry I Laboratory / N 5:1 (1)
- 41.221 Calculus I / N (4)

Spring

- 15.210 General Chemistry II / N 5:2 (3)
- 15.211 General Chemistry II Laboratory / N 5:2 (1)
- 41.222 Calculus II (recommended)

Sophomore Year

Fall

- 09.110 General Biology I / N 5:1 (3)
- 09.111 General Biology I Laboratory / N 5:1 (1)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)

Spring

- 09.210 General Biology II / N 5:2 (3)
- 09.211 General Biology II Laboratory / N 5:2 (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)

Junior Year*Fall*

- 51.110 University Physics I / N 5:1 (3)
- 51.111 General Physics Laboratory I / N 5:1 (1)

Spring

- 51.210 University Physics II / N 5:2 (3)
- 51.211 General Physics Laboratory II / N 5:2 (1)

Students are also encouraged to take one or more upper-level courses in biology and chemistry.

The above sequence presumes that a student has already decided by the beginning of his or her freshman year to pursue a premedical course of study. However, students who do not make this decision until the sophomore or even the beginning of the junior year are not precluded from selecting a career in medicine. The American University provides sufficient flexibility and resources to enable serious students the opportunity to prepare for medical studies. Students who do not decide on a medical career until the middle of their undergraduate studies may need to complete their premedical requirements during summers or in a post-baccalaureate year.

Academic Advising

The coordinator for premedical programs meets with students each year to review their academic progress and to discuss their course of study at The American University. Working in concert with the student's academic adviser in the major area of study, the coordinator helps assure a timely completion of both degree and premedical requirements.

On-Campus Programs

Alpha Epsilon Delta, the National Premedical Honor Society, has a resident chapter on the American University campus (the District of Columbia Beta Chapter). This active organization sponsors weekly seminars, in which researchers, medical school officials, and prominent local physicians speak on issues of current interest in medicine and medical education. Students are encouraged to conduct original biomedical research projects, visit local medical institutions, and become affiliated with local private medical practitioners. Alpha Epsilon Delta also sponsors health fairs, campus-wide symposiums, and speakers in the dormitories who address medical and health issues of interest to the entire campus population.

Internship Opportunities

Many junior and senior premedical students have participated in research at the National Institutes of Health, the Naval Medical Research Institute, the Walter Reed Army Institute of Research, and the Department of Public Health of the District of Columbia. In addition to gaining a wealth of firsthand knowledge and insight, students may also receive academic credit for their involvement in these projects.

Application and Admissions

In the past several years, 80% of the students who have applied to medical, dental, or veterinary schools have been

accepted by one or more programs (the national average is 65%). Students from The American University's premedical programs have been admitted to a wide range of professional schools, including the University of Pennsylvania, Johns Hopkins University, Georgetown University, the University of Virginia, the University of Chicago, the Medical College of Virginia, and the Uniformed Services University of Health and Sciences in Bethesda, Maryland. To assist both the applicants and the schools considering them, the Premedical Evaluations Committee interviews the students and thoroughly examines their records in order to prepare a comprehensive letter of recommendation which is sent to professional schools.

Psychology

Chair Carol S. Weissbrod

Full-Time Faculty

Professor A.L. Berman, J.J. Gray, A. Leventhal, B.W. McCarthy, E.M. McGinnies (Emeritus), A.L. Riley, M. Rioch (Emeritus), A.M. Silberberg, B.M. Slotnick, S.J. Weiss

Associate Professor D.L. Chambless, S.R. Parker, C.S. Weissbrod, B.T. Yates

Assistant Professor A.H. Ahrens,

The undergraduate program in the Department of Psychology offers the student an opportunity to appreciate psychology's diversity and its applications. Courses are offered in clinical, social, personality, developmental, and experimental psychology. Advanced special topics courses in these and related areas are often available. Students may design programs that approach psychology as a social science, a natural science, or a combination of the two. Advanced students have the opportunity to become actively involved in both psychological research and paraprofessional counseling. During the junior and senior years, majors are encouraged to take small, specialized seminars and engage in supervised independent study. Undergraduate majors also have opportunities for internship experience with community mental health agencies and may participate in ongoing research within the department. The program is sufficiently flexible and broad to satisfy career goals and provide a solid background for graduate study.

Affiliations

Washington, D.C., Veterans Administration Hospital; Baltimore Veterans Administration Hospital; St. Elizabeth's Hospital; Community Psychiatric Center (Bethesda); Georgetown University Hospital (Department of Pediatrics); Kennedy Institute (Baltimore); Children's Hospital (Washington, D.C.) Institute for Behavioral Resources; George Washington University Medical Center; North Center (Washington, D.C.); Johns Hopkins University School of Medicine; Veterans Administration Medical Center (Perry Point, MD); Alexandria Community Mental Health Center; Woodburn Center for Community Mental Health; Eastern Virginia Medical School, Department of Psychiatry (Norfolk, VA).

B.A. in Psychology

Admission to the Program

Students must apply to, and be approved by, the department for formal admission to the major.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty credit hours with grades of C or better.

Course Requirements

- 57.105 Psychology as a Social Science /S 4:1 (3)
- 57.115 Experimental Foundations of Psychology /N 5:1 (3)
- 42.202 Basic Statistics /N (4)
- Six credit hours (two courses) from the natural-science psychology offerings:
 - 57.200 Behavior Principles /N 5:2 (3)
 - 57.220 Perception /N 5:2 (3)
 - 57.225 Neurobiological Bases of Behavior /N 5:2 (3)
 - 57.240 Drugs and Behavior /N 5:2 (3)
 - 57.275 Cognitive Psychology (3)
 - 57.360 The Evolution of Behavior (3)
 - 57.370 Learning and Behavior (3)
- Six credit hours (two courses) from the social-science psychology offerings:
 - 57.205 Social Psychology /S 4:2 (3)
 - 57.210 Self-Management (3)
 - 57.215 Abnormal Psychology and Society /S 4:2 (3)
 - 57.230 Theories of Personality /S 2:2 (3)
 - 57.250 Child Psychology (3)
 - 57.333 Health Psychology (3)
 - 57.430 Human Sexual Behavior (3)
 - 57.470 Introduction to Clinical Psychology (3)

Upper-level undergraduate courses (such as 57.502, 57.514, 57.520, 57.525, 57.551, 57.560, and 57.570) may also fill the social-science requirement.

- Electives to complete the required forty hours.

Recommendations

Students should consult their faculty advisers in plan-

ning their schedules. Students interested in careers such as those in research and teaching, mental health professions, personnel and industrial psychology will want to choose curriculums suited to their goals. The breadth of the field of psychology and of the department's course offerings make careful planning important.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Psychology

University Requirements

- A total of eighteen credit hours (six courses) in psychology with grades of C or better.

Course Requirements

- 57.105 Psychology as a Social Science /S 4:1 (3)
- 57.115 Experimental Foundations of Psychology /N 5:1 (3)
- Three semester hours (one course) from the natural sciences division (see B.A. course requirements for specific offerings).
- Three semester hours (one course) from the social sciences division (see B.A. course requirements for specific offerings).
- Electives to complete the required eighteen hours.

B.A./M.A. in General Psychology

Admission to the Program

This program enables full-time students to complete the B.A. and M.A. in Psychology in five years. Students should apply for this program no later than the first semester of the senior year and no earlier than the first semester of the junior year. Students must have a 3.00 grade-point average in psychology and statistics courses and must have completed at least one-half of the credit hours required for the B.A. in Psychology. The undergraduate statistics course required for the B.A. must be completed before application to the M.A. program in General Psychology. It is recommended, but not required, that students take the career track as undergraduates. Students must submit a completed graduate application form (through the Office of Admissions), Graduate Record Examination (GRE) scores for the General (Verbal, Quantitative, and Analytic) and Advanced Psychology sections, two letters of recommendation, and copies of all college transcripts.

Degree and Major Requirements

- All requirements for the B.A. degree with a major in psychology.
- All requirements for the M.A. degree with a major in general psychology.

Students may apply two 500-level courses toward meeting the requirements of both degrees.

M.A. in General Psychology**Admission to the Program**

Applicants must submit GRE scores on the General and Advanced Psychology examinations, submit two letters of recommendation, and have at least a 3.00 grade-point average. Three undergraduate psychology courses and one undergraduate statistics course are also required before application.

Completion of the degree does not necessarily lead to admission to the Ph.D. program; students who wish to be considered for the Ph.D. program must reapply. Applicants with a B.A. who wish to obtain a Ph.D. in Psychology from The American University should apply directly to the Ph.D. program. If they do not have an M.A., they will earn one as part of the Ph.D. program. See the following description of the Ph.D. program and its clinical and experimental/social tracks for more information.

Up to six credit hours of graduate course work in psychology from another university or up to twelve credit hours of graduate course credit taken at The American University may be transferred. These transfers of credit are subject to approval by the director of the M.A. program.

Tracks

General, Personality/Social, and Experimental/Biological.

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work.
- The written general comprehensive examination (offered every fall, spring, and summer semester).
- Thesis option: The master's thesis involves an original research project. Students must prepare a thesis proposal, collect and analyze data, submit a written thesis, and give an oral defense.

Course Requirements*General Psychology*

- Two courses from the following:
57.505 Advanced Theories of Personality (3)
57.514 Industrial/Organizational Psychology (3)
57.520 Psychology of Suicide and Life-Threatening Behavior (3)
57.551 Psychopathology (3)
57.560 Advanced Child Psychology (3)

- 57.570 Behavioral Medicine (3)
- 57.596 Advanced topics course in the Personality/Social area
- 57.640 Advanced Social Psychology (3)

- Two courses from the following:
57.501 Physiological Psychology (3)
57.503 Sensation and Perception (3)
57.513 Neuropsychopharmacology: The Biochemistry of Behavior (3)
57.530 Conditioning and Learning (3)
57.575 Human Cognition (3)
- One graduate seminar in experimental psychology or neuroscience
- One graduate statistics course.
- Nonthesis option: Six credit hours from the following:
57.525 Clinical Research Practica (3-4)
57.550 Psychological Research I (3)
57.601 Psychological Research II (3)
57.698 Directed Research (3)
- Four graduate elective courses totaling twelve credit hours, of which at least six credit hours are from the Department of Psychology.

Personality/Social Psychology

- Four courses from the following:
57.505 Advanced Theories of Personality (3)
57.514 Industrial/Organizational Psychology (3)
57.520 Psychology of Suicide and Life-Threatening Behavior (3)
57.551 Psychopathology (3)
57.560 Advanced Child Psychology (3)
57.570 Behavioral Medicine (3)
57.596 one Advanced topics course in the Personality/Social area, such as Psychology of Sex Differences or a graduate seminar in clinical, personality, or social psychology (3)
57.640 Advanced Social Psychology (3)
- Two courses from the following:
57.501 Physiological Psychology (3)
57.503 Sensation and Perception (3)
57.513 Neuropsychopharmacology: The Biochemistry of Behavior (3)
57.530 Conditioning and Learning (3)
57.575 Human Cognition (3)
- One graduate seminar in experimental psychology or neuroscience.
- One graduate statistics course.
- 57.550 Psychological Research I (3)
or
57.601 Psychological Research II (3)
- One graduate elective.
- 57.797 Master's Thesis Seminar (6)

Experimental/Biological Psychology

- Four courses from the following:
57.501 Physiological Psychology (3)
57.503 Sensation and Perception (3)
57.513 Neuropsychology: The Effects of Drugs on Behavior (3)
57.515 Neuropsychology Laboratory Methods (3)
57.530 Conditioning and Learning (3)
57.575 Human Cognition (3)
- One graduate seminar in experimental psychology or neuroscience.
- Two courses from the following:
57.505 Advanced Theories of Personality (3)
57.514 Industrial/Organizational Psychology (3)
57.520 Psychology of Suicide and Life-Threatening Behavior (3)
57.551 Psychopathology (3)
57.560 Advanced Child Psychology (3)
57.570 Behavioral Medicine (3)
57.596 Advanced topics course in the Personality/Social area
57.640 Advanced Social Psychology (3)
- One graduate statistics course.
- 57.550 Psychological Research I (3)
or
57.601 Psychological Research II (3)

- Completion of one comprehensive examination. The nature of the examination is arranged between the student and the student's adviser and may be written or oral.
- Master's thesis: an original research project designed and carried out by the student demonstrating competency in research and an understanding of the substantive issues in the specific area encompassed by the thesis. Oral defense.
- Advancement to candidacy after satisfactory performance in course work (at least a B average must be maintained with no more than one C), completion of thesis research, satisfactory performance in an oral examination concerning the content of the thesis, and completion of the written general comprehensive examination.

Course Requirements

- One course in statistics.
- 57.550 Psychological Research I (3)
or
57.601 Psychological Research II (3)
- Six credit hours to fulfill the thesis requirement.

Note Also: Students may receive credit for graduate-level course work taken outside the Department of Psychology. Courses relevant to the student's special area of study may be taken through the Consortium of Universities of the Washington Metropolitan Area.

Ph.D. in Psychology

There are two tracks within the doctoral program, Clinical (APA accredited) and Experimental. Students who have been admitted to the doctoral program in psychology but do not have an M.A. in psychology that has been accepted by the department must first complete special M.A. degree requirements. The master's degree is awarded on completion of the M.A. course requirements and successful defense of a research thesis. The M.A. program described in the preceding section is available to students not admitted to the Ph.D. program.

Admission to the Program

Admission to the program is based on Graduate Record Examination scores (General and Advanced Psychology tests), previous academic performance, and letters of recommendation. Those applicants judged to be among the top thirty or thirty-five are invited for an interview, and the final selection is based on all information, including the interview. Students are admitted for full-time study only.

Tracks

Experimental, Clinical, and Social Psychology.

M.A. Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.

Ph.D. Degree and Major Requirements

Students who are admitted without an approved M.A. must meet the M.A. requirements described above before working on Ph.D. degree requirements.

- A total of seventy-two credit hours of approved graduate work, including fifty-four graduate-level credit hours, six hours of thesis research, and twelve hours of dissertation research.
- Two tools of research are required but do not result in course credit toward the degree.

The tool requirement is flexible and can be met in a variety of ways: (1) demonstration of a knowledge of a language relevant to the student's career; (2) demonstration of mastery in a computer program language; (3) satisfactory completion of one skill-oriented graduate course offered by another department at The American University or by nonpsychology departments of the Consortium universities; (4) service in one clinical institute which is approximately equal in time and difficulty to a full course; and (5) supervised tool training in other settings when approved by the student's adviser and the department chair.

- Four comprehensive examinations outlined by advisers or other faculty members. They are designed to be more comprehensive and professional than conventional comprehensive examinations. They

involve students in the kinds of activities they will later engage in as professional psychologists. At least one of the four comprehensions must be oral and at least two must be written.

- Dissertation: A written proposal for the dissertation is to be submitted to the dissertation committee by the middle of the second semester of the third year. The original proposal, or a revision thereof, should meet the requirements of the committee by the end of the second semester. This allows adequate time for completion of a quality dissertation even if initial experimentation turns out to be exploratory in nature.

Course Requirements

Clinical Track

- 57.502 History and Systems of Psychology (3)
- 57.550 Psychological Research I (3)
- 57.609 Ethics and Professional Practices (3)
- 57.650 Assessment of Intellectual Functioning (3)
- 57.651 Personality Testing (3)
- 57.680 Practicum Training I (3)
- 57.681 Practicum Training II (3)
- Six hours of statistics.
- Twelve hours that are clearly outside the area of clinical psychology.

Social Track

- 57.550 Psychological Research I (3)
- Six hours in statistics.
- Six hours which are clearly outside the area of social psychology.

Experimental Track

- 57.550 Psychological Research I (3)
- Twelve hours that are clearly outside the area of experimental psychology.

Special Opportunities

In the fourth year, the clinical student will serve an internship in an appropriate setting outside the university. Special research opportunities in laboratories at the National Institutes of Health and related research institutions are available for students in social and experimental psychology.

Sociology

Chair Samih K. Farsoun

Full-Time Faculty

Professor A. Motz Blum (Emerita), M. Cantor, E. Chow, B. Kaplan, F. Lorimer (Emeritus), G. Mueller K. Petersen, J.C. Scott (Emeritus), J. Siegenthaler, A. Van der Slice (Emeritus)

Associate Professor R. David, S. Farsoun, K. Kusterer

Assistant Professor G.A. Young

Sociology explores how individuals, through their collective actions, create and change patterns of social relations and how, in turn, these social relations influence people's lives. Sociologists focus on many levels of analysis from societies as component parts of wider systems to individuals as participants in two-person groups. They also study a wide variety of themes, from family life to political change to the social organization of cities. This quest for knowledge is both an end in itself and a pathway for informed social change.

The graduate program in the department emphasizes sociological theory; social research; macrosociology; social psychology; social stratification; and the sociology of work, occupations and organizations; and justice. The undergraduate program requires majors to pursue core sequences in sociological theory and social research and offers students an opportunity to explore a wide range of perspectives and substantive interests.

Consult the Department of Sociology for detailed descriptions of undergraduate and graduate degree programs.

B.A. in Sociology

Admission to the Program

Students must be approved by the department for formal admission to the major.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-three credit hours with grades of C or better.

Course Requirements

- 65.100 American Society /S 4:1 (3)
- 65.410 Classical Sociological Theory (3)
- 65.411 Contemporary Sociological Theory (3)
- 65.320 Introduction to Social Research (3)
- 42.202 Basic Statistics /N (4)

- Three hours of advanced research methods (65.42x).
- Fifteen credit hours of electives in sociology, including twelve hours at the 300 level or above and three hours at the 500 level.
- Nine credit hours of electives, including six hours beyond the introductory level selected from one of the following areas: anthropology, computer science, economics, history, statistics, philosophy, political science, or psychology. Electives should be selected in consultation with a departmental adviser.

Recommendations

(1) All majors: Complete 65.100 and at least one 300-level elective in sociology before the junior year. Complete 65.320, 65.410, 65.411, and 65.42x during junior year. Choose sociology electives from at least two of the following areas: macrosociology (65.x3x), social psychology (65.x4x), social stratification (65.x5x), work, occupations, and organizations (65.x6x), and other (65.x8x). (2) Majors interested in graduate study in sociology or related fields: At least one course in statistics. Additional sociology electives from several areas. (3) Majors interested in careers in social research after completing the bachelor's degree: Select 65.491 as sociology elective after completing 65.320. Select statistics or computer science as a related field. (4) Majors interested in careers in social work: Select 65.491 as sociology elective in the junior or senior year. Take at least two courses in social psychology (65.x4x) as sociology electives. Select psychology as a related field.

Special Opportunities

Undergraduate assistantships, carrying a stipend of \$300 and a work commitment of seven hours per week, are awarded competitively each semester to declared majors with at least a 3.00 overall grade-point average who have completed eleven or more credit hours of course work in sociology. Consult the department for details.

Internships: The department offers internship opportunities for major and minors. In the fields of social service, social change, and social research.

Cooperative Education: The department encourages participation in the co-op program and makes placements each semester in social change, research, and social work agencies. A special supervising sociology co-op program is conducted each year for residence hall advisers.

Double Majors: Because the department requires only ten courses in sociology and one in statistics, a student frequently can work out a double or joint major with other fields such as anthropology, business administration, communication, economics, history, international studies, political science, and psychology. Details can be worked out with department faculty.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the

section on the University Honors Program in this catalog for further details.

Minor in Sociology

Requirements

- 65.100 American Society /S 4:1 (3)
- 65.320 Introduction to Social Research (3)
- 65.410 Classical Sociological Theory (3)
- An advanced course in theory (.411) or methods (.42x).
- Three courses at the 300 level or above in sociology.

M.A. in Sociology

Admission to the Program

Admission to the program is at the discretion of the department's Graduate Committee. Admission in full standing requires a 3.00 average (on a 4.00 scale) in the undergraduate major, at least twelve credit hours of approved sociology courses (undergraduate or graduate) with a grade of B or better, and letters of recommendation from two persons able to evaluate the applicant's potential for graduate study in sociology. Provisional admission may be extended in certain cases where these standards are not fully met. The Graduate Record Examination is recommended but not required.

The M.A. program is a sequence designed for students beginning their graduate program in the fall. M.A. candidates accepted for spring admission may have special problems related to course sequences that they should resolve with the department before they begin the course work.

Degree and Major Requirements

- A total of thirty credit hours of approved graduate work.
- Statistics tool of research examination designated by the Department of Sociology, or graduate-level statistics course with a B or better grade (three credit hours) approved by the department.
- Two comprehensive examinations, 65.020 Methods of Social Research and 65.010 Sociological Theory. Full-time students must take the examinations in Sociological Theory and Methods of Social Research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other in August before beginning their third year of study.
- Research requirement: The first half may be satisfied with completion of advanced seminar in research methods, an advanced seminar in the student's field of concentration, or an independent study course in

the field of concentration. To satisfy the second half of the research requirement, the student must enroll in 65.795, Master's Research: Independent Study in Sociology under the guidance of a professor of his or her choice and complete a substantial research report on a topic related to the field of concentration.

Course Requirements

- 65.610 History of Sociological Theory (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Social Research I (3)
- 65.621 Social Research II (3)
- Two courses in one field of concentration selected from the following: macrosociology, social psychology, social stratification, and work, occupations, and organizations.
- Six credit hours of course work to fulfill the research requirement.

Ph.D. in Sociology

Admission to the Program

Admission to the program is at the discretion of the department's Graduate Committee. Admission in full standing requires completion of twelve or more credit hours of approved graduate-level course work in sociology with a grade-point average of better than 3.00 on a 4.00 scale, and letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study in sociology. Provisional admission may be extended in certain cases where these standards are not fully met. Note: The award of an M.A. degree from this department does not automatically qualify a student for acceptance into the doctoral program. The Graduate Record Examination is recommended but not required.

Students who have not completed twelve credit hours of graduate-level course work in sociology, as required, are encouraged to apply to the master's degree program. If admitted to that program, they may later petition the department's Graduate Committee for admission to the Ph.D. program. This requires completion of the M.A. comprehensive examinations, a grade-point average of better than 3.00 on a 4.00 scale in courses completed as M.A. candidates, and letters of recommendation from two faculty members.

The Ph.D. program is a sequence designed for students beginning their graduate program in the fall. Ph.D. candidates accepted for spring admission may have special problems related to course sequences that they should resolve with the department before they begin course work.

Degree and Major Requirements

- A total of seventy-two hours of approved graduate work.
- Tool of research: proficiency in a language approved by the department and in statistics for social research.

Consult the department for details on how to demonstrate proficiency in both tool areas.

- Four comprehensive examinations, one in sociological theory, one in methods of social research, and one each in two other fields of concentration is required. At least one of these examinations in the student's field of concentration must be oral.

Full-time students must take the comprehensive examinations in sociological theory and methods of social research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other before beginning their third year of study. A maximum of three attempts on these examinations is permitted to doctoral students: one taken before enrollment in the required sequence (see Course Requirements below), one taken in the first examination period after completion of the required sequence, and one taken in the next examination period.

Satisfactory performance on the comprehensive examinations in theory and methods qualifies the doctoral candidate to continue in the Ph.D. program.

The comprehensive examination requirement in theory and methods of social research is waived for students who have completed the M.A. comprehensive examination requirement at The American University in the fall 1976 examination period or thereafter, provided that this requirement was satisfied no more than three years before admission to the Ph.D. program.

- Dissertation and oral examination of the dissertation in which the candidate may be questioned over the general field of the research done. The candidate must have completed all academic requirements for the degree before the oral examination is taken.

Students entering the Ph.D. program with M.A. degrees earned elsewhere must complete at least thirty credit hours of graduate work in residence at The American University, plus twelve credit hours of dissertation credit.

Course Requirements

- 65.610 History of Sociology Theory (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Social Research I (3)
- 65.621 Social Research II (3)
- 65.710 Seminar in Sociological Theory (3)
- 65.720 Seminar in Social Research (3)

Full-time students must complete 65.610, 65.611, 65.620, and 65.621 during their first year in the degree program. Part-time students must complete the sequence in either 65.610-65.611 (theory) or 65.620-65.621 (methods) during their first year, and the other sequence during their second year.

The basic sequence requirement in theory or methods may be waived for students who receive a grade of satis-

factory for the theory or methods comprehensive examination taken in the August before the semester in which they are required to begin the sequence.

- Two courses in each of two fields of concentration.

At least one of the doctoral candidate's two fields of concentration must be selected from the following: Macrosociology (65.x3x); Social Psychology (65.x4x); Social Stratification (65.x5x); Work, Occupations, and Organizations (65.x6x); and Justice (see program description below). Subject to departmental approval, the candidate may offer as one field of concentration a special area not in the listing above (65.080).

Special Opportunities

The department cooperates with Wesley Theological Seminary in offering a Ph.D. in Sociology with specialization in Society and Religion. Applicants for admission must meet the requirements of the university and the Department of Sociology, and be recommended by Wesley Theological Seminary. Consult the Department of Sociology and Wesley Theological Seminary for further information about this program.

Demography as a special field for doctoral candidates: By arrangement with the Department of Demography, Georgetown University, doctoral candidates in sociology at The American University interested in choosing demography as one of their two special fields may complete the course and comprehensive examination requirements for that field at Georgetown University. Information on the demography program is available in the Sociology Department office.

Ph.D. in Sociology: Justice

Admission to the Program

Admission to the program in Sociology with a Specialization in Justice is determined jointly by appointed representatives from the Department of Sociology and the Department of Justice, Law, and Society in the School of Public Affairs.

To apply for admission to this program, students must complete twelve or more credit hours of approved graduate-level course work in Sociology with a grade-point average of better than 3.00 on a 4.00 scale, supply letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study, and submit GRE (General) scores.

The Justice faculty reviews all applicants for the Justice specialization and recommends admission to the Department of Sociology, which makes the final decision.

Degree and Major Requirements

- Seventy-two hours of approved graduate work.

Normally these seventy-two hours consist of sixty hours of course work and twelve hours of directed study on the dissertation. At least twelve hours and no more than thirty hours are taken in the Department

of Justice, Law, and Society in the School of Public Affairs.

Course Requirements

- Three courses in sociological theory:
65.610 History of Sociological Theory (3)
65.611 Modern Sociological Theory (3)
65.710 Seminar in Sociological Theory (3)
- Two courses in methods of social research:
65.620 Social Research I (3)
65.621 Social Research II (3)
- Two courses in one field of concentration offered by the sociology department: social psychology; work, occupations, and organizations; social stratification; macrosociology.
- At least four courses in the Department of Justice, Law, and Society, including nine hours in one of the following areas: law and society, court management, law enforcement, corrections, organization and administration, and drug policy; and three hours in a seminar in justice research.
- Electives to be decided individually between the student and the student's adviser.
- Four comprehensive examinations: sociological theory; methods of social research; a field of concentration approved by the Department of Sociology, usually in one of the four areas of concentration (macrosociology; work, occupations, and organizations; social psychology; and stratification); and the candidate's approved area of concentration administered by the Department of Justice, Law, and Society. At least one of the two examinations in the fields of concentration must be taken orally; however, it is strongly recommended that the justice comprehensive examination be written. Candidates are permitted to take the examinations in theory and methods no more than three times, one prior to enrollment in the required courses in theory (65.610 and 65.611) and methods (65.620 and 65.621). Students who pass the examinations prior to taking the courses are exempt from the research method and theory course requirements.
- Tools of Research: Before submitting a dissertation, the candidate must demonstrate proficiency in a language approved by both the Department of Sociology and Department of Justice, Law, and Society. (At this time demonstration of proficiency in a computer program language may be offered in satisfaction of the language tool requirement) and statistics for social research. The statistics tool may be satisfied in a number of ways. (For details, see the Graduate Handbook). One option is six hours of approved statistics courses. These courses, contingent on approval from the program committee, may contribute toward satisfaction of the sixty hours of graduate course-work requirements.

- Every candidate must submit a dissertation proposal for approval by the candidate's dissertation committee, consisting of at least four and no more than five members. The chair of the dissertation committee and one other member are appointed by the Department of Justice, Law, and Society. Two members are appointed by the Department of Sociology.
- A candidate must submit the completed dissertation to the dissertation committee for approval. Before the degree can be granted, the candidate must take an oral examination in which he or she may be questioned over the general field of research done. Before taking the oral examination, the candidate must have completed all academic requirements.

Statistics

Chair Basil P. Korin

Full-time Faculty

Professor D.S. Crosby, M.W. Gray, R.H. Holzager, R.W. Jernigan, B.P. Korin, H. Rosenblatt (Emeritus), J.H. Smith (Emeritus)

Associate Professor A.M. Barron, N. Flournoy, M. Greene, E.B. McCue (Emeritus)

Assistant Professor S. Hillis, C.T. Machlin (Emerita), S. Parker

Instructor F. Awtarani, R. Modarres-Hakimi

Research Faculty

Research Professor N. Mantel

The Department of Mathematics and Statistics combines the resources and knowledge of these related disciplines. This enables the department to offer unusually varied and flexible programs. A student with an interest in the mathematical sciences may choose a program within the department and later change his or her emphasis without a great loss of time because the programs share a common core.

The university's Washington, D.C., location affords the student access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment opportunities for students with a firm grounding in the mathematical sciences.

Statistics is concerned with the collection, organization, analysis, interpretation, and presentation of numerical data. The science of statistics is a broad and challenging field. Its breadth can be seen in the way its ideas and techniques have found application in almost every field of study. Statistics has contributed organizational and analytical techniques that provide new insights in fields that range from the physical and life sciences to business, law, history, literature, and the social sciences.

A student majoring in statistics has two tracks available. Those who intend to continue with graduate work in

statistics or those with an interest in the theory of statistical methods should follow the sequence for mathematical statistics, which requires a strong background in mathematics. Students wishing an emphasis in the use of statistical techniques should follow the sequence for applied statistics. The latter program is especially appropriate as a secondary emphasis for students who have a strong interest in a field of application.

Special Opportunities

The department employs a number of its undergraduates in its tutoring lab and in the computer labs. The department also offers a limited number of book scholarships to its undergraduates. Applications should be submitted by the end of July preceding the academic year for which aid is requested. Work-study awards are also available. For more information, consult the financial aid office.

B.S. in Statistics

Admission to the Program

Admission to the program in mathematical statistics requires the completion of 41.221, 41.222, and 41.223 with grades of C or better. Admission to the program in applied statistics requires the completion of 41.211 and 41.212, or 41.221 and 41.222, with grades of C or better. A 2.00 cumulative grade-point average is required for admission to either program.

Tracks

Mathematical Statistics or Applied Statistics.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- Mathematical Statistics: a total of forty-seven credit hours with grades of C or better.

Applied Statistics: a total of fifty-four or fifty-five credit hours with grades of C or better.

Course Requirements

Mathematical Statistics

- 41.221 Calculus I / N (4)

- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics /N (4)
- 42.502 Introduction to Mathematical Statistics (3)
- 42.515 Regression (3)
- 42.516 Design of Experiments (3)
- 40.280 Introduction to Computer Science I /N (4)
- Four additional courses selected from the department, at or above .281 of which two must have the prefix 42 (42.514 cannot be used), as approved by an adviser.

Applied Statistics

- 41.211 Applied Calculus I /N (4)
- 41.212 Applied Calculus II /N (3)
or
41.221 Calculus I /N (4) and
41.222 Calculus II /N (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics /N (4)
- 42.300 Business Statistics /N (3)
- 42.502 Introduction to Mathematical Statistics (3)
- 42.515 Regression (3)
- 42.516 Design of Experiments (3)
- 40.260 Introduction to Computing /N (4)
or
40.280 Introduction to Computer Science I /N (4)
- Two additional courses selected from the department as approved by a student's adviser.
- At least five approved courses in a related field, such as anthropology, psychology, sociology, economics, biology, business administration, or computer science. The five courses may be selected from more than one teaching unit.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Statistics

Requirements

- 42.202 Basic Statistics /N (4)

- 41.221 Calculus I /N (4)
or
41.211 Applied Calculus I /N (4)
- Four courses at the 300 level or above from 42.xxx or 41.501 Probability (3).
Students may select either 42.300 or 42.514 for credit toward the minor.

Undergraduate Certificate in Applied Statistics

Admission to the Program

Open to students with a high-school diploma or Graduate Equivalency Diploma (GED).

Course Requirements

- 40.260 Introduction to Computing /N (4)
- 41.211 Applied Calculus I /N (4)
- 41.212 Applied Calculus II /N (3)
- 42.202 Basic Statistics /N (4)
- 42.300 Business Statistics /N (3)
or
42.514 Statistical Methods (3)

Five-Year Programs

Admission to Programs

The five-year programs enable qualified undergraduates (students with a grade-point average of 3.2 on a 4.0 scale in major courses) to earn both a bachelor's and a master's degree within five years. There are several options available: the student may choose the same major at the undergraduate and graduate level; the student may enter the master's program in computer science with an undergraduate major in mathematics; or the student may enter the master's program in statistics with an undergraduate major in mathematics. All students should apply by the end of the junior year.

B.S./M.A. in Statistics or Mathematics and Statistics

The qualified student can earn a B.S. with a major in Statistics or Mathematics and earn an M.A. with a major in Statistics.

Additional Admission Requirements

Applicants must have completed 41.501 and 42.502 by the end of the junior year.

Degree and Major Requirements

- A total of seventy-eight hours of course work with an undergraduate major in mathematics; seventy-three

credit hours of course work with an undergraduate major in statistics.

- An approved tool of research.
- A written comprehensive examination.
- Thesis option: Six hours of 42.797 Master's Thesis Seminar in Statistics and an oral defense of the thesis.

Nonthesis option: Three credit hours in 42.690 Independent Study Project in Statistics, requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

- All requirements for the B.S. in Mathematics or B.S. in Statistics, mathematical statistics track.
 - 42.530 Mathematical Statistics I (3)
 - 42.531 Mathematical Statistics II (3)
- (42.530 and 42.531 must be completed by the end of the senior year.)
- Eighteen additional credit hours of approved graduate courses including 42.600 Advanced Mathematical Statistics I (3).
 - Six credit hours of course work to fulfill the thesis or nonthesis option.

M.A. in Statistics

Admission to the Program

Students will be expected to have an adequate background in the mathematical sciences. Students entering the M.A. program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

Tracks

Mathematical Statistics and Applied Statistics.

Degree and Major Requirements

- At least thirty credit hours of approved graduate work.
 - Proficiency in Russian, German, French, or a computer language as a tool of research.
 - Written comprehensive examination (administered in two parts). Majors in Mathematical Statistics take 42.001, Statistical Theory and Probability. Majors in Applied Statistics take 42.005, Statistical Theory and Applications.
 - Thesis option: Six hours of 42.797 Master's Thesis Seminar in Statistics and an oral defense of the thesis.
- Nonthesis option: Three credit hours in 42.690 Independent Study Project in Statistics or 42.700 Seminar

in Statistics, requiring an oral and written presentation of the research work. Three hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

Mathematical Statistics

- 41.574 Theory of Probability (3)
 - 42.530 Mathematical Statistics I (3)
 - 42.531 Mathematical Statistics II (3)
 - 42.584 Introduction to Stochastic Processes (3)
 - 42.600 Advanced Mathematical Statistics I (3)
 - 42.601 Advanced Mathematical Statistics II (3)
- Two additional courses in mathematics or statistical theory for the thesis option. Three additional courses in mathematics or statistical theory for the nonthesis option.
 - A student may take up to twelve credit hours as an independent research project.
 - Additional research hours of course work to fulfill thesis or nonthesis option.

Applied Statistics

- 41.574 Theory of Probability (3)
 - 42.530 Mathematical Statistics I (3)
 - 42.531 Mathematical Statistics II (3)
 - 42.584 Introduction to Stochastic Processes (3)
 - 42.600 Advanced Mathematical Statistics I (3)
- Three additional courses in statistical methods and applications (including approved related courses given in other teaching units).
 - A student may take up to twelve credit hours as an independent research project.
 - Additional research hours of course work to fulfill the thesis or nonthesis option.

M.S. in Statistical Computing

Admission to the Program

Students will be expected to have adequate background in the mathematical sciences. Specifically, program prerequisites are 40.281 Introduction to Computer Science II and 40.282 Assembly Language (or equivalents) and three semesters of calculus. In addition, previous work in statistics, probability, and matrix algebra is recommended.

Degree and Major Requirements

- Thirty-six credit hours of approved graduate work. Six hours may be waived for students who have had 40.520 and 40.521, or 42.530 and 42.531, or their equivalents.
- Written comprehensive examination, 42.007

Statistical Computing.

- Six credit hours to fulfill the research requirement.

Course Requirements

- 40.520 Algorithm and Data Structures (3)
- 40.521 Design and Organization of Programming Languages (3)
- 41.560 Numerical Analysis: Basic Problems (3)
- 42.524 Data Analysis (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- One of the following:
42.515 Regression (3)
42.520 Applied Multivariate Analysis (3)
- One of the following:
42.584 Stochastic Processes (3)
42.522 Time-Series Analysis (3)
- Two courses selected from:
40.540 Computer Systems Organization and Programming (3)
40.568 Artificial Intelligence (3)
40.570 Data Management Systems (3)
40.584 Computer Graphics (3)
- Research Requirement:
42.640 Statistical Computing (3)
42.690 Independent Study Project in Statistics (3-6)

Ph.D. in Statistics

Admission to the Program

Two letters of recommendation.

Degree and Major Requirements

- A total of seventy-two credit hours of approved graduate work including twelve credit hours of 42.799 Doctoral Dissertation Seminar in Statistics. Thirty hours may be transferred into the program by students who have a master's in Statistics.
- Proficiency in two tools of research chosen from: French, German, Russian, an approved computer language, or an approved analytical skill such as numerical, complex, or real analysis.
- A qualifying examination taken before completion of twenty-four credit hours of course work in the doctoral program.
- Four comprehensive examinations, three written and one oral.

The fields for the written examinations are: 42.020 Advanced Statistical Theory (administered in two parts), and two chosen from the following: 41.024 Probability, 42.028 Linear Estimation, 42.029 Multivariate Analysis, 42.030 Decision Theory, 42.020 The-

ory of Sampling, and 42.070 Statistical Computing.

- A dissertation directed by a full-time faculty member and an oral defense of the dissertation.

Graduate Certificate in Applied Statistics

Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

Course Requirements

- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- Three of the following:
42.510 Theory of Sampling I (3)
42.515 Regression (3)
42.516 Design of Experiments (3)
- 42.517 Special Topics in Statistical Methodology (3) or
42.519 Nonparametric Statistics (3)

Women's Studies Program

Program Coordinator Mary W. Gray (Department of Mathematics and Statistics)

The Women's Studies Program at The American University addresses across the curriculum the essential and often neglected subject of women and the significance of gender in shaping the experiences of communities and individuals. In the required interdisciplinary course for the minor in Women's Studies and in a variety of courses offered by departments throughout the university, students focus on women as subject and on the ways in which the omission of the consideration of gender has biased the study of human life. Many faculty members with national reputations for their work in gender issues regularly teach these courses. Their students benefit directly from the expertise of women and men who are at the cutting edge of this newly developing field of scholarly endeavor.

Special Opportunities

Students who minor in Women's Studies complete an internship off campus in an organization or agency whose mission embraces some aspect of women's lives and experiences. Washington, D.C., is the location or headquarters of a number of such diverse organizations as the Mid-Atlantic Center for Sex Equity, National Organization for Women, Women's Equity Action League, Women's Legal Defense Fund, Washington Women's Art Center, and many others. Because of its location in the nation's capital, The American University hosts major speakers and lecture series, such as the symposium, "Women in the Changing

World," conducted by Jihan Sadat.

In combination with a variety of academic majors, a minor in Women's Studies may lead to a challenging career in an area affecting women's lives, including law, social work, teaching, or research.

Minor in Women's Studies

Admission to the Program

Students who wish to participate in the Women's Studies Program should advise the program coordinator of their interest and complete the declaration-of-minor form.

Course Requirements

- 76.250 The Social Reality of Women /A 4:2 (3)
- 76.491 Internship (3)
- Twelve credit hours of course work, nine of which must be at the 300 level or above, from a list of women's studies courses approved by the Women's Studies Advisory Board.

Some representative course offerings include:

- 02.324 Reinventing American Families
- 03.342 Women and Work
- 03.431 Taboos
- 07.307 Women and Art
- 19.303 Sex Roles in Economic Life
- 21.389 Sexism in School and Society: National and International Perspectives
- 23.370 A Room of One's Own: Women and Literature
- 29.220 Women in Modern America
- 34.320 Topics in Jewish Culture: Women and Sex in Jewish Tradition
- 49.323 Women's Health /N
- 57.497 Advanced Topics in Psychology: Psychology of Sex Differences
- 65.352 Women and Society

Consult the program coordinator for each semester's course offerings in women's studies.



Kogod College of Business Administration

Dean William H. Peters

Associate Dean for Graduate Programs Herbert Glazer

Associate Dean for Undergraduate Programs Richard L. Apperson

Assistant Dean for Administration Firouz Bahrampour

Director of Academic Support Judith Sugarman

Academic Counselor Arthur Harris

Academic Counselor Uma Saini

Full-Time Faculty

University Professor H.E. Striner (Emeritus)

Professor H.K. Baker, C.I. Bartfeld, G.E. Biles, D.R. Brenner, T.V. DiBacco, R.B. Edelman, G.T. Ford, H. Glazer, J.E. Hampton, S.R. Holmberg, L.L. Karadbil, D.M. Khambata, H. Martyn (Emeritus), M.B. Mazis, J. Owens, W.H. Peters, M.P. Sampson, M. Seldin, J.H. Sood, S.D. Whitley (Emeritus)

Associate Professor F.D. Abramson, G.F. Bulmash, J.R. Butts, A.D. Cao, R.H. Gorman, D. Gray, S.H. Iverson, Jr. (Emeritus), P.J. Jacoby, J. Kokus, Jr., P.C. Kumar, R.L. Losey, D.C. Martin, M.A. Mass, T. Mroczkowski, H.M. Schilit, V. Selman, P.S. Shen, R.M. Springer, Jr., D.B. Webster

Assistant Professor F. Alsaaty, N.A. Bagranoff, J.M. Bailey, W.H. DeLone, P.E. Hart, D.C. Jacobs, R.G. Linowes, J.F. Magnotti, R. Muthuswamy, A.C. Perry, G.E. Powell, A.C. Riley, J.L. Swasy, R.J. Volkema, E.A. Wasil, D.T. Williams

Instructor P.M. Beck, F.L. DuBois, A.P. Marks, D.G. Weaver

The Kogod College of Business Administration (KCBA) prepares men and women for positions of management

and leadership in business and society in the local, national, and international communities. The goal of the college is to produce graduates who possess the administrative skills, problem-solving tools, and professionalism essential to the profitable conduct of business in an interdependent world. The program augments this objective by offering students a quality education grounded in liberal studies which provides students with a foundation for success in achieving their career goals, advancing their education, and contributing to society as responsible citizens.

The undergraduate program is a liberal arts based curriculum that also provides in the business core a broad knowledge of business functions followed by the opportunity to concentrate in one of seven major fields of study. The program, leading to a Bachelor of Science in Business Administration, has the following objectives:

1. To develop in each student the ability to write and speak effectively; an appreciation of the arts and humanities; an awareness of social and political problems, as well as the history and international and intercultural traditions that shape our world; a background in the natural sciences; and an understanding of mathematics and statistics and their application to business and economic problems.
2. To develop an understanding of the American and international economic systems and the important relationship between business and government.
3. To provide an understanding of the organizational dynamics of the business enterprise and the interpersonal skills necessary for effective management.
4. To provide a background of the concepts, processes, and institutions in the production and marketing of goods and services and the financing of business organizations.

5. To provide a foundation in the concepts and application of accounting, quantitative methods, and management information systems.

6. To stimulate the student's intellectual curiosity, to develop the ability to reason logically, and to encourage the consideration of ethical principles.

The goal of the M.B.A. program is to develop practical business managers who can succeed in the complex, technical arena of world-wide business today and in the future. This goal is accomplished by stressing three themes: real world business experience, management information systems, and international business.

The M.B.A. program and the two M.S. programs contain within their required curriculums the business "common body of knowledge" required by the American Assembly of Collegiate Schools of Business. The M.B.A. is a broad, general management program with an emphasis in one particular field, while the M.S. programs provide specialized concentrations in accounting and taxation. The emphasis in both degrees is on a quality educational experience.

The college is made up of five departments: Accounting (including a Taxation program), Finance and Real Estate, Management (with the majors of Business Management Information Systems and Human Resource Management), International Business, and Marketing. As part of the Finance Center of Excellence, a Center for Financial Research fosters faculty research productivity by providing a bridge between academic theory and business practice. In the Marketing Center of Excellence, the Center for Marketing Policy Research sponsors research and disseminates information on the effects of government policy on the marketing of goods and services. The International Business Department acts as a matrix department, providing opportunities for professors from other teaching units and other experts in the field to participate in the programs of the college.

Real Estate Center

The Real Estate Center is dedicated to improving real estate education, research, and public service by fostering a closer working relationship between real estate professionals, their organizations and associations, the students and alumni of the college, and the university community.

The center contributes to KCBA students' professional and academic development through a series of programs and activities. These include executive-level workshops and institutes, as well as coordination of fellowships, scholarships, and cooperative education experiences. In cooperation with the American Institute of Real Estate Appraisal (AIREA) and the Institute of Real Estate Management (IREM), the Center also offers a number of noncredit courses in appraisal and property management. These courses help prepare students for professional certification in appraisal (MAI and RM) and property management (CPM).

By maintaining close contact with licensing commissions, realtor organizations and boards, and professional associations, the Real Estate Center provides KCBA students with access to the active real estate environment of the Washington, D.C. area.

Bachelor of Science in Business Administration (B.S.B.A.)

Admission to the Program

Freshman applicants should have demonstrated above average performance in their college preparatory courses in secondary school. Scores on the CEEB Scholastic Aptitude Test should indicate that the applicant has the potential for success in a rigorous university degree program. Due to the quantitative emphasis of the business administration curriculum, it is strongly recommended that applicants take the Mathematics Achievement Test for placement purposes.

Students must be approved by the appropriate department of the college for admission into a major. The college recommends that this be accomplished before the student registers for the second semester of the junior year. KCBA courses at the 300 level or above require junior standing. Specific course prerequisites are strictly enforced.

Majors

Accounting, Business Management Information Systems, Finance, International Business, Marketing, Human Resource Management, Real Estate and Urban Development.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of the five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of 120 credit hours:
54 credit hours in nonbusiness courses.
51 credit hours in business courses as follows: 33 credit hours in business core subjects and 18 credit hours in a business major (24 for Business Management Information Systems and International Business, and 21 for Accounting).
9-15 elective credit hours, depending upon major field.

Course Requirements

Students are responsible for fulfilling university and college degree requirements following a prescribed sequence. The KCBA Office of Undergraduate Programs must be consulted for counseling and advice.

University Requirements

- 23.100 College Writing (3)
or
23.102 College Writing (3)
- 23.101 College Writing Seminar (3)
or
23.103 College Writing Seminar (3)
- 41.211 Applied Calculus I (4)
Students with a stronger background in mathematics may take 41.221 Calculus. Students needing to strengthen their quantitative skills should begin with either 41.150 Finite Mathematics or 41.170 Precalculus Mathematics.

General Education Requirements

Please refer to the section of this catalog containing the General Education Program. KCBA students should fulfill General Education requirements before beginning the junior year of study. A total of six credits, consisting of one foundation course and one second-level course must be completed in each of the following curricular areas: The Creative Arts, Traditions That Shape the Western World, International and Intercultural Experience, Social Institutions and Behavior, and The Natural Sciences.

The Social Institutions and Behavior curricular area may be fulfilled by completing 19.100 Macroeconomics and 19.200 Microeconomics.

Non-Business Prerequisites and Electives

- 40.260 Introduction to Computing (4)
- 42.202 Basic Statistics (4)
- Six credits of non-business electives

Business Core Courses

- 10.352 Introduction to Management Information Systems (3)
- 10.353 Principles of Organizational Theory, Behavior and Management (3)
- 10.355 Production/Operations Management (3)
- 10.458 Business Policy and Strategy (3)
- 11.300 Principles of Marketing (3)
- 12.300 Fundamentals of International Business (3)
- 13.201 Business Law (3)
- 13.365 Corporate Finance (3)
- 13.452 Business Responsibility in American Society (3)
- 14.240 Principles of Accounting I (3)
- 14.241 Principles of Accounting II (3)

Major Courses**Accounting (seven required courses)**

- 14.340 Intermediate Accounting I (3)
- 14.341 Intermediate Accounting II (3)
- 14.345 Cost Accounting (3)
- 14.443 Taxation (3)

- 14.449 Auditing (3)
- 14.450 Introduction to Accounting Information Systems (3)
- 14.480 Accounting Theory and Problems (3)

Accounting majors preparing for the CPA public practice specialization should complete the following additional accounting courses:

- 14.444 Taxation II (3)
- 14.547 Advanced Financial Accounting (3)

Business Management Information Systems (eight required courses)

- 10.354 Business Applications of Computers (3)
- 10.454 Managing Information for Business Decision Making (3)
- 10.455 Business Management Information Systems Practicum (3)
- 55.334 Programming Concepts I (COBOL) (or equivalent course) (3)
- 55.460 Applied Systems Design (3)
- Three additional KCBA courses from one functional area approved by the student's advisor.

Finance (six required courses)

- 19.306 Money and Banking (3)
- 13.464 Financial Markets and Institutions (3)
- 13.468 Financial Decision Making (3)
- 13.469 Investment Analysis (3)
- Two from the following:
14.340 Intermediate Accounting I (3)
14.443 Taxation I (3)
13.476 Real Estate Investment Strategy (3)
12.302 International Finance (3)
or other courses approved by the department

International Business (eight required courses)

- Four courses in international business:
12.301 International Marketing (3)
12.302 International Finance (3)
- Two courses selected from the following:
12.401 Cultural Environment of International Business (3)
12.404 Multinational Accounting Issues (3)
12.507 International Human Resource Management (3)
19.311 International Economics (3)
- four courses in one of the following supporting fields

Supporting Field of Accounting

- 14.340 Intermediate Accounting I (3)
- 14.341 Intermediate Accounting II (3)
- 14.345 Cost Accounting (3)

and one other accounting course selected with the approval of the academic adviser.

Supporting Field of Business Management Information Systems

- 10.354 Business Applications of Computers (3)
- 10.454 Managing Information for Business Decision Making (3)
- 55.334 Programming Concepts I: COBOL (3)
- 55.460 Applied Systems Design (3)

Supporting Field of Finance

- 19.306 Money and Banking (3)
- 13.464 Financial Markets and Institutions (3)
- 13.468 Financial Decision Making (3)
- 13.469 Investment Analysis (3)

Supporting Field of Marketing

- 11.301 Consumer Behavior (3)
- 11.401 Marketing Research (3)
- 11.402 Marketing Problems (3)
- 42.300 Business Statistics (3)

Supporting Field of Human Resource Management

- 10.381 Principles of Human Resource Management (3)
 - 10.382 Employee Participation in Decision Making (3)
 - 10.383 Topics in Human Resource Management (3)
- and one other personnel course selected with the approval of the academic advisor.

- Six credit hours of a foreign language (in place of two elective courses), or competency examination.
- A student wishing to pursue a double major in International Business and another business field must complete six International Business courses and six courses in the second field.

Marketing (six required courses)

- 11.301 Consumer Behavior (3)
- 11.401 Marketing Research (3)
- 11.402 Marketing Problems (3)
- Three courses from the following:
 - 12.301 International Marketing (3)
 - 11.411 Promotion Management (3)
 - 11.412 Advertising Campaigns (3)
 - 11.421 Sales Management (3)
 - 11.436 Retailing Management (3) and other courses approved by the department.
- 42.300 Business Statistics (3) in place of one liberal arts elective.

Human Resource Management (six required courses)

- 10.381 Principles of Human Resource Management (3)
- 10.382 Employee Participation in Decision Making (3)
- 10.383 Topics in Human Resource Management (3)
- 10.384 Applications in Performance Appraisal (3)
- Two courses from the following:

- 10.481 Wage and Salary Administration (3)
 - 10.482 Pension and Benefits Management (3)
 - 10.585 Equal Employment Opportunity (3)
- or other course approved by the department.

Real Estate and Urban Development (six required courses)

- 13.370 Urban Development (3)
- 13.373 Real Estate Principles and Transactions (3)
- 13.474 Real Estate Finance and Economics (3)
- 13.476 Estate Investment Strategy (3)
- 13.478 Basic Real Estate Law (3)
- 13.464 Financial Markets and Institutions (3)

or an approved elective

Students are encouraged to participate in cooperative education programs.

Graduation Requirements

Students must complete 120 hours with a cumulative grade-point average of 2.0 or better. A grade of C or better must be achieved in each of the KCBA major courses. Also grades of C or better must be achieved in a minimum of nine of the eleven business core courses (courses with the prefix 10.xxx, 11.xxx, 12.xxx, 13.xxx, 14.xxx), including capstone course 10.458 and any business prerequisite core course or courses relevant to the specific major field. Pass/fail grades are not permitted in the major or in the business core courses.

Cooperative Education Program

Qualified students majoring in Business are encouraged to participate in the Cooperative Education Program which provides field experience in jobs related to their academic programs and career goals. The program enables students to make career decisions and prepare for entry into the professional job market while earning degree credit in full- or part-time placements. Positions may be with business, local, state, or federal governments or community, social service, or not-for-profit organizations. Credit earned in a co-op course may be applied as general elective credit toward a bachelor's degree.

The International Business department offers co-op field experiences abroad. Students have been placed with employers in Australia, Belgium, Colombia, Egypt, France, Jamaica, Japan, Nigeria, Spain, the United Kingdom, and West Germany. Language proficiency and the geographic and business interests of the student are considered in the placement process.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Minor in Business Administration

Designed to provide a minimum coverage of the common body of knowledge in business administration for nonbusiness majors.

Requirements

Please note that 19.100 Macroeconomics and 19.200 Microeconomics are prerequisites to 11.300 Principles of Marketing, and that 42.202 Basic Statistics is a prerequisite to 13.365 Corporate Finance. These courses must be successfully completed before starting the Minor in Business Administration.

- 13.201 Business Law (3)
- 14.240 Principles of Accounting I (3)
- 14.241 Principles of Accounting II (3)
- 10.353 Principles of Organizational Theory, Behavior and Management (3)
- 13.365 Corporate Finance (3)
- 11.300 Principles of Marketing (3)
- 12.300 Fundamentals of International Business (3)
- 13.452 Business Responsibility in American Society (3)

While not required, the following additional courses are highly recommended:

- 40.260 Introduction to Computing (4)
- 41.211 Applied Calculus I (4)

Master of Business Administration (M.B.A.)

Admission to the Program

A satisfactory score on the Graduate Management Admission Test (GMAT) and a satisfactory grade-point average for the last sixty hours of academic work from a Council on Postsecondary Accreditation (COPA) accredited institution.

Applicants whose first language is not English may be required to pass a special English test before they are permitted to register for KCBA courses. Students who are not native English speakers must also be certified by the English Language Institute.

Areas of Concentration

Students select one of the following areas of concentration: Accounting; Business Management Information Systems; Finance; Human Resource Management; International Business; Marketing; or Real Estate and Urban Development.

Degree and Concentration Requirements

Students admitted to KCBA graduate-degree programs are expected to have adequate mathematics (calculus) competency to successfully complete their graduate business programs. Students with inadequate mathematics

preparation are required to attend a noncredit mathematics workshop before the completion of twelve credit hours of graduate study. Students are informed of this requirement at the time of admission based on an evaluation of their prior education. There is a fee for the workshop, payable at the time of registration through the Office of Graduate Programs.

- A total of sixty credit hours of approved graduate work including eleven Business Common Body of Knowledge (CBK) courses, five Breadth Courses and four Area of Concentration courses.
- Research requirement: Students must earn a grade of B or better in two courses specified from the total credit-hour requirement as a nonthesis option. These two courses must be taken in residence. Strategic Management (10.755) is required of all M.B.A. students as one of the two nonthesis-option courses. The other required course is identified by an asterisk (*) within each M.B.A. area of concentration.

Course Requirements

Business Common Body of Knowledge Courses (eleven courses)

The CBK courses should be completed before the student enrolls in Breadth or Concentration courses. All of the CBK required courses except 10.755 Strategic Management may be waived by evidence of a satisfactory undergraduate business record at an institution accredited by the Council on Postsecondary Accreditation (COPA). CBK courses that are not waived must be taken at the graduate level at the Kogod College of Business Administration, in addition to the Breadth and Concentration courses. CBK courses cannot be utilized to satisfy either Breadth, Concentration or Elective requirements.

- 10.606 Managerial Statistics (3)
- 10.608 Production and Operations Management (3)
- 10.610 Organizational Theory and Behavior (3)
- 10.611 Managerial Economics (3)
- 11.601 Marketing Management (3)
- 14.603 Accounting Concepts and Applications (3)
- 10.655 Management Information Systems (3)
- 12.600 Manager in the International Economy (3)
- 13.605 Financial Management (3)
- 13.604 Business and Society (3)
- 10.755 Strategic Management (3) (normally taken in the student's last semester of course work)

Breadth Courses (five courses)

Breadth courses are designed to offer the student the opportunity to expand his or her horizons beyond the specialized area of concentration. Two of the breadth courses are required. The three remaining breadth courses must be selected from three different areas of business concentration outside the student's selected field of concentration. They are to be chosen on the basis of consultation with the student's faculty adviser.

Required Courses (two courses)

- 13.648 Legal Concepts of Business Organizations (3)
- 10.612 Business Economics (3)

Elective Courses (three courses)

- Three business courses (within the Kogod College of Business Administration) outside the area of concentration selected from three different fields (non-CBK courses)

Area of Concentration (four courses)

Accounting

- 14.640 Financial Accounting I (3)
- 14.641 Financial Accounting II (3)*
- 14.645 Managerial Cost Accounting (3)
- One more graduate accounting course with approval of the faculty advisor (excluding the CBK)

Business Management Information Systems

- 10.657 Business Applications of Database Management Systems (3)
- 10.658 Managing Information as a Corporate Resource (3)
- 10.659 Applications of Business Decision Support Systems (3)
- 10.660 Business Applications Development Practicum (3)*

Finance

- 13.650 Advanced Financial Management
- 13.765 Seminar in Finance (3)*
- Two more graduate Finance courses with approval of the faculty advisor (excluding the CBK)

Human Resource Management

- 10.671 Issues in Human Resource Management (3)
- 10.681 Wage and Salary Administration (3)
- 10.684 Seminar in Performance Appraisal (3)*
- One course, approved by adviser, from the following:
 - 10.585 Equal Employment Opportunity (3)
 - 10.586 Management-Union Relations (3)
 - 10.682 Seminar in Pensions and Benefits (3)
 - 10.694 Training and Development Seminar (3)
 - 10.695 Legal Environment of Human Resource Management (3)
 - 10.792 Seminar in Industrial Relations Administration (3)
 - 10.795 Seminar in Human Resource Planning (3)

International Business

The M.B.A. area of concentration in International Business is composed of the following three tracks: Interna-

tional Finance, International Marketing, and International Management.

Track I: International Finance

Concentration courses

- Two of the following three courses:
 - 12.606 International Banking (3)
 - 13.650 Advanced Financial Management (3)
 finance elective (excluding the CBK)
- 12.602 International Finance (3)
- 12.701 Seminar in International Business (3)*

Track II: International Marketing

Concentration courses

- Two of the following four courses:
 - 11.602 Consumer Behavior (3)
 - 11.603 Industrial and Government Markets (3)
 - 11.605 Promotion Management (3)
 - 11.604 Marketing Research (3)
- 12.601 International Marketing (3)
- 12.701 Seminar in International Business (3)*

Track III: International Management

Concentration courses

- Two of the following courses:
 - 12.507 International Human Resource Management (3)
 management elective (excluding the CBK)
 - management elective (excluding the CBK)
- 12.603 Comparative Management Systems (3)
- 12.701 Seminar in International Business (3)*

Breadth Courses for International Business Concentrations:

- Three of the following (excluding the area of concentration and the CBK):
 - 12.507 International Human Resource Management (3)
 - 12.601 International Marketing (3)
 - 12.602 International Finance (3)
 - 12.603 Comparative Management Systems (3)
 - 12.605 Legal Issues of International Business (3)
 - 12.606 International Banking (3)
 - 12.692 International Business Cooperative Education (3) or one Business elective course

Of the two required Breadth courses for all MBA students, 10.612 and 13.648, International Business students have the option of taking 12.605 in lieu of 13.648.

Marketing

- 11.604 Marketing Research (3)
- 11.607 Strategic Marketing (3)*
- Two courses from the following:
 - 11.606 Marketing and Public Policy (3)
 - 11.602 Consumer Behavior (3)
 - 11.603 Industrial and Government Markets (3)
 - 11.605 Promotion Management (3)
 - 12.601 International Marketing (3)

Real Estate and Urban Development

- 13.679 Real Estate and Land Economics (3)
- 13.683 Real Estate Analysis (3)
- 13.684 Real Estate Finance and Mortgage Markets (3)
- 13.776 Seminar in Real Estate and Urban Development (3)*

Special Opportunities

Students who are graduates of an AACSB accredited business school with an upper-level (last 60 hours) GPA of 3.0 or better and a GMAT score of 500 or better may be admitted directly to the thirty-three credit M.B.A. program. Students admitted to this program are required to take 10.755 Strategic Management, five Breadth courses, four Area of Concentration courses, and a graduate Elective course approved by a faculty advisor.

The M.B.A. degree may be obtained by attending evening classes part time. Cooperative Education experiences are available for up to six breadth credits. The curriculum is designed to accommodate students with or without an undergraduate business degree.

Waiver and Transfer Policy

Up to twelve credit hours of graduate-level courses validated by KCBA may be transferred into the M.B.A. program if earned with grades of B or better at a COPA accredited institution within five years before admission. Up to twenty-seven credit hours may be waived for students who have completed the appropriate undergraduate or graduate courses with grades of B or better at a COPA accredited institution. The combination of transferred and waived courses cannot exceed a total of twenty-seven credit hours. A minimum of thirty-three credit hours must be taken in residence for this sixty-credit-hour M.B.A. program.

Master of Science Degrees

The Kogod College offers two Master of Science degrees which are designed to meet the special educational requirements of the accounting profession. The M.S. in Accounting program provides graduates with the technical knowledge essential for successful completion of the Certified Public Accountant Examination and for assumption of positions of growing responsibility in accounting practice.

The M.S. in Taxation program is designed to provide CPAs and other qualified students with in-depth preparation for professional careers as tax practitioners. In addition to the accounting and taxation specializations, both M.S. programs assure that graduates have mastered the breadth of knowledge in business administration and management essential for decisive action in professional practice. Both M.S. degrees may be obtained by attending evening classes part-time.

M.S. in Accounting

Admission to the Program

Requirements for admission to the program are the same as those for the M.B.A. degree. Prior education in business or accounting is not necessary. M.S. in Accounting students are subject to the same mathematics competency requirements as MBA students.

Degree Requirements

Degree requirements vary from a minimum of ten graduate courses to a maximum of twenty courses depending on an evaluation of each student's educational background. The complete M.S. in Accounting curriculum consists of sixty credit hours of approved graduate work including ten Business Common Body of Knowledge (CBK) courses and ten courses in the Accounting specialization.

Students with appropriate prior education may waive up to thirty hours of required course work. A minimum of thirty credit hours must be taken in residence.

Business Common Body of Knowledge (CBK) (ten courses)

- 10.606 Managerial Statistics (3)
- 10.608 Production and Operations Management (3)
- 10.610 Organizational Theory and Behavior (3)
- 10.611 Managerial Economics (3)
- 10.655 Management Information Systems (3)
- 10.755 Strategic Management (3)
- 11.601 Marketing Management (3)
- 13.605 Financial Management (3)
- 14.602 Legal Environment of Professional Accounting (3)
- 14.603 Accounting Concepts and Applications (3)

Accounting Specialization (ten courses)

- 14.604 Federal Income Taxation (3)
- 14.640 Financial Accounting I (3)
- 14.641 Financial Accounting II* (3)
- 14.645 Managerial Cost Accounting (3)
- 14.649 Auditing Theory and Practice (3)
- 14.650 Accounting Information Systems (3)
- 14.547 Advanced Financial Accounting (3)

- 14.780 Seminar in Accounting Theory (3)*
- two accounting or taxation electives

The electives must be selected with approval of the department chair from the following alternatives:

- 14.660 Governmental, Not-for-profit, and Fiduciary Accounting (3)
- 14.670 Accounting for Multinational Operations (3)
- 14.739 Advanced Managerial Accounting (3)

approved graduate taxation courses

In addition, the student must complete a written comprehensive examination in the final semester of study.

M.S. in Taxation

Admission to the Program

Admission to the M.S. in Taxation program requires an undergraduate bachelor's degree in business administration from a COPA accredited institution with a satisfactory grade-point average for the last sixty credit hours and a satisfactory score on the Graduate Management Admission Test (GMAT).

The applicant must demonstrate satisfactory completion of course work equivalent to the Common Body of Knowledge for undergraduate business education as currently defined by the American Assembly of Collegiate Schools of Business (AACSB). In addition, the applicant must have completed two semesters of intermediate accounting, one semester of business law, and one semester of federal income taxation. Any deficiencies in the above prerequisite courses must be completed at the graduate level at The American University after admission to the program, and are in addition to other program requirements.

Degree Requirements

The M.S. in Taxation requires ten graduate tax courses (thirty credit hours), including two required core tax courses (six hours), a research component (six hours), and six elective tax courses (eighteen hours). At least one of the elective courses must be chosen from the 600-level electives. In addition, the student must complete a written comprehensive examination in the final semester of study.

Master of Science in Taxation students are subject to the same mathematics competency requirements as the MBA students.

Core Tax courses (Two Courses)

- 14.630 Legislative and Judicial Foundations of Income Tax (3)
- 14.631 Tax Research and Procedure (3)

Research Component (Six Credit Hours)

There are three options to satisfy the research component. The first two alternatives require a written thesis

and the third option requires two research-oriented courses in lieu of a thesis.

Option 1

- 14.797 Master's Thesis Seminar (6)

Option 2

- 14.750 Tax Policy (3)
- 14.797 Master's Thesis Seminar (3)

Option 3 Non-Thesis Option

- 14.750 Tax Policy (3)
- 14.751 Seminar in Business Tax Policy (3)
or
- 14.752 Seminar in Family Financial Planning (3)

The thesis and all research component courses must be completed with a grade of B or better.

Elective Courses (six courses)

- Six courses chosen from the following:
 - 14.632 Estate and Gift Tax (3)
 - 14.633 Corporation Income Taxation I (3)
 - 14.740 Corporation Income Taxation II (3)
 - 14.741 State and Local Taxation (3)
 - 14.742 Special Tax Topics (3)
 - 14.743 International Taxation (3)
 - 14.744 Advanced Topics in Tax Accounting and Procedures (3)
 - 14.745 Employee Benefit Tax Planning (3)
 - 14.746 Taxation of Real Estate Transactions (3)
 - 14.747 Partnership Taxation (3)
 - 14.751 Seminar in Business Tax Planning (3) If not taken in satisfaction of the non-thesis option research component.
 - 14.752 Seminar in Family Financial Planning (3) If not taken in satisfaction of the non-thesis option research component.

J.D./M.B.A. Joint Program

A joint J.D./M.B.A. program is offered by the Kogod College of Business Administration and the Washington College of Law.

Admission to the Program

Each applicant must satisfy the admission requirements of both KCBA and WCL before being admitted to the program.

Degree Requirements

Requirements for the M.B.A. degree vary from a maximum of sixty credit hours to a minimum of thirty-three credit hours depending upon the student's prior education. Students may waive up to nine CBK courses based

on appropriate undergraduate business course work. KCBA may also give credit toward the M.B.A. degree for up to a maximum of six credit hours for Breadth courses or seminars taken at the Washington College of Law (WCL), provided they are appropriate and approved by the Joint WCL-KCBA Committee.

For the J.D. degree, students must complete eighty-six credit hours. The Washington College of Law may give credit toward the J.D. degree up to a maximum of six credit hours for courses or seminars taken at KCBA, provided they are appropriate and approved by the Joint WCL-KCBA Committee.

M.S. and M.B.A. Graduate Certificate in Procurement Management

Requirements for admission to these programs are the same as those for other graduate programs in KCBA. The M.B.A. consists of 60 credit hours of graduate work. The M.S. consists of 48 hours of graduate work plus a written comprehensive examination. The Graduate Certificate consists of 18 hours of graduate work. For information about these programs, consult the KCBA Office of Graduate Programs.



J. William Fulbright, former chairman of the Senate Foreign Relations Committee, discusses with American University students the role of Congress in foreign-policy making.

School of International Service

Dean Louis W. Goodman

Associate Dean For Academic Affairs

Nanette S. Levinson

Associate Dean For Administrative Affairs

Roger E. Legere

Professor J.M. Bonham, D.L. Clarke, S.D. Cohen, W.C. Cromwell, T.J. Farer, J.J. Finan, R.H. Gabriel (University Emeritus), L.W. Goodman, R.W. Gregg, E.S. Griffith (University Emeritus), G.L. Harris (Emeritus), L.H. Howell, W.G. Hunsberger (Emeritus), M.D. Irish (Emerita), K.P. Landon (Emeritus), M.F. Lindsay (Emeritus), L.L. Lubrano, V. Medish, A.D. Mott, H. Mowlana, W.C. Olson, N.G. Onuf, F.J. Piotrow, D.D. Randall (Emeritus), J.M. Richardson, A.A. Said, M. Struelens, A. Suhrke, A.R. Taylor, B.B. Tyson, A.L. Vilakazi (Emeritus), L.W. Wadsworth (Emeritus), M.P. Walker, G. Weaver, L.C. Wilson.

Associate Professor S.H. Arnold, P. Brenner, D. Hirschmann, N.S. Levinson

Assistant Professor F. Cheru, S. Gallup, J. Heath, M. Hammer, W. Long, R. Marlin-Bennett, R. Moore, G. Porter, L. Schwartz, Y.H. Zoubir

The Faculty

The diversity of the school's forty-three faculty members in terms of academic disciplines and professional experience, both in the United States and abroad, exemplifies the multidisciplinary and cross-cultural essence of international relations. To supplement the regular faculty, the school takes advantage of the extraordinary number of highly-qualified experts assigned to positions in Washington. The school regularly appoints adjunct and visiting professors, and benefits from their expertise in the field of international relations.

The School of International Service offers professional training in international affairs. The programs are based on an interdisciplinary curriculum oriented towards the liberal arts which encourages students to explore foreign affairs through the contributions of political scientists, so-

ciologists, anthropologists, economists, historians, and specialists in communication.

The School of International Service offers exceptional opportunities for undergraduate and graduate studies. These opportunities evolve from the location of the university in a world capital and from the rich human and documentary resources which enhance the school's educational programs.

At all times the link between the school and its Washington environment nourishes the academic growth of its students. Whatever their career objectives, students of the school participate in programs that are multidisciplinary, problem and policy oriented, and uniquely adapted to those opportunities inherent in the metropolitan Washington location.

Internships and Cooperative Education Opportunities in Washington

Only in Washington can the subject of international affairs be studied in such a relevant context. This location affords students opportunities for hands-on learning with academic credit through an increasing number of internships in government and nongovernment agencies with international interests. Internships are available with international organizations, congressional committees, lobbying groups, research organizations, and government offices of special professional interest to the SIS student. Cooperative education is an academic program which places students in preprofessional jobs for which they earn degree credit. Students who participate in the cooperative education experience are often offered permanent employment as a result of their co-op assignments.

Career and Professional Opportunities

The school has had great success preparing students for international service. Graduates have established flourishing careers in fields including economic development, intelligence gathering and assessments, disaster relief, policy analysis, congressional affairs, and technology transfer. Graduates accept positions in Washington and elsewhere with agencies concerned with health, food resources, population, security, arms control, diplomacy,

and international trade and banking. SIS alumni also serve in the international branches of organizations involved in law, agriculture, science, religion, culture, printing and publishing, journalism, management, accounting, and higher education. The wide range of government activities, including the Foreign Service, the Armed Forces, and Congress in Washington, D.C., creates unique opportunities for career development.

Honor Society

The International Relations Honor Society, Alpha Chapter of Sigma Iota Rho, was founded at The American University on April 12, 1984. Sigma Iota Rho is an interdisciplinary scholarly recognition society founded for undergraduates whose course of study concentrates on international relations.

Undergraduate Study

An undergraduate majoring in one of the programs of the school will take courses in the fields of international relations, U.S. foreign policy, comparative foreign policy, regional international systems and area studies, non-Western civilizations, international development, international communication, and policy analysis. Supplementing this core of courses, is a variety of offerings with an international focus offered by other teaching units including anthropology, business, communication, economics, education, history, language, and sociology.

Study Abroad

Study abroad is encouraged and students frequently take advantage of the opportunity to learn in another culture. The university officially sponsors programs in London, Paris, Rome, Brussels, Bonn, Vienna, Copenhagen, Poland, the Caribbean, Buenos Aires, and Beijing. Participation in programs of study sponsored by other accredited U.S. collegiate institutions is allowed. Such academic credit is readily transferable to The American University. Tours to other nations led by faculty members are occasionally offered during the academic year, during semester breaks and in the summer.

Graduate Study

The School of International Service offers a Master of Arts in International Affairs, a Master of Arts in International Development, a Master of Arts in International Communication, a Master of Science in Development Management, a JD/MA in Law and International Affairs, and a Doctor of Philosophy in International Relations. The school's graduate programs are grounded in the social sciences and reflect a strong commitment by the school's faculty to teaching and research.

Unique Educational Resources

The American University offers qualified undergraduate and graduate students the opportunity to enroll for courses at any of the institutions in the Consortium of the Universities of the Washington Metropolitan Area. By taking advantage of consortium offerings, students may greatly enrich their programs, particularly in specialized interest area and language study.

Washington offers unique research facilities including the Library of Congress, the National Archives, and various other libraries maintained by government agencies, public and private international organizations associations, and other area universities.

The university operates the Social Science Computer Laboratory, which provides students access to commonly used mainframe applications, including the Statistical Package for the Social Sciences (SPSS) and the Statistical Analysis System (SAS). As a member of the Inter-University Consortium for Political and Social Research (ICPSR), The American University possesses over one hundred data sets and has ready access to hundreds of others. In addition, as a member of the consortium students are eligible for direct borrowing privileges from any of the consortium university libraries.

B.A. in International Studies

Admission to the Program

Candidates for admission to the school must present evidence of excellent personal and academic qualifications. To be considered for freshman admission, an applicant should have earned at least a B average in secondary school. Cultural factors are considered in evaluating transcripts and examination results. Other factors taken into account are leadership qualities, character, and personal interests. Students from other regionally accredited collegiate institutions, and students in other programs at The American University who have completed the freshman year, should maintain a cumulative grade-point average of B to be considered for transfer to the school.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of sixty-three credit hours with grades of C or better.

Course Requirements

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 33.151 Western Tradition I (3)
- 33.152 Western Tradition II (3)

- 33.202 World Politics /S (3)
- Twelve credit hours of a modern language through the intensive elementary or the nonintensive intermediate level, depending on the language (may be waived by examination).
- Two courses in an area or areas other than the United States and Western Europe from offerings of the School of International Service (SIS) or other teaching units.

For details consult SIS undergraduate advisers.

- One of the following courses in political science:
33.100 Political Concepts (3)
53.105 Individual Freedom vs. Authority /S 2:1 (3)
53.120 Introduction to American Politics /S (3-4)
53.130 Comparative Politics /S 3:1 (3)
53.200 Modern Political Thought (3)
- One of the following courses in U.S. history or culture:
02.202 American Dream/American Life /A, S (3)
29.205 America's Quest for the Good Society:
1607-1865 /A 2:2 (3)
29.206 America's Quest for the Good Society since
1865 (3)
29.366 Twentieth-Century America /A (3)
- One of the following courses in U.S. foreign policy or diplomatic history:
33.381 Foreign Policies of the Great Powers (3)
33.382 The Analysis of United States Foreign Policy (3)
33.385 United States Foreign Economic Policy /S (3)
33.386 Comparative Foreign Policy (3)
33.389 Selected Topics in Policy Analysis (3)
33.583 United States in World Affairs (3)
29.362 World War II: The American Experience (3)
29.363 Other Wars: Cold, Korean, and Vietnam (3)

Other foundation courses in political science, U.S. history or culture and U.S. foreign policy or diplomatic history are available. Consult SIS advisers.

- One of the following courses in quantitative methodology:
19.310 Introduction to Econometrics (3)
29.370 Quantification in History (3)
33.307 Quantitative Approaches to International Politics (3)
42.202 Basic Statistics /N (4)
53.310 Introduction to Political Research (3)
- Eighteen credit hours in two upper-level fields of concentration.

Nine credit hours each in two groups of courses related to specific themes. These fields may be selected from comparative politics and policy analysis, international communication, international relations, the third world and cross-cultural development, United States foreign policy (political, economic, and national security dimensions), advanced quantitative methods in

international relations, and the following areas of regional concentration: Africa, Asia (East, South, and Southeast), Western Europe, Latin America, the Middle East and North Africa, and Russia and the Soviet Union. A maximum of six hours of complementary work in the social sciences offered by other teaching units may be credited toward fulfillment of this requirement. For complete lists of recommended courses in the fields, consult the SIS Undergraduate Office.

Special Opportunities

Cooperative education programs, internships (including a limited number of U.S. State Department internships), Pan Ethnon, Foreign Policy Semester, *Envoy*, *The Diplomatic Pouch*.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete 12 hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Language and Area Studies

Students receive a B.A. in a language and area study from the College of Arts and Sciences or the School of International Service (SIS).

Admission to the Program

Freshmen and transfer students are admitted to the Department of Language and Foreign Studies in the College of Arts and Sciences or to the School of International Service. They must achieve a 3.00 or better cumulative average and determine their language and area before they are formally recognized as majors.

Majors

French/West European Area Studies; German/West European Area Studies; Russian/USSR Area Studies; Spanish/Latin American Area Studies.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.

- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-two credit hours with grades of C or better.

Eighteen of the total credit hours in the language of the major at the 300 level or above.

Twenty-four of the total credit hours in the area of specialization fulfilled according to requirements for the College of Arts and Sciences degree or the School of International Service degree.

Course Requirements

French

- 37.324 French Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.325 French Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.420 French Civilization I (3)
- 37.421 French Civilization II (3)

German

- 37.332 German Conversation and Composition I /A (3) (or substitute if warranted by language proficiency)
- 37.333 German Conversation and Composition II /A (3) (or substitute if warranted by language proficiency)
- 37.438 German Civilization I (3)
- 37.439 German Civilization II (3)
- Additional six credit hours in German as advised.

Spanish

- 37.354 Spanish Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.355 Spanish Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)

Russian

- Courses chosen from regular Russian offerings in consultation with adviser.

College of Arts and Sciences

- Twenty-four credit hours in area-related courses in anthropology, economics, government, history, international relations, language and foreign studies (beyond the eighteen-semester-hour requirement), literature, and interdisciplinary studies. Courses are chosen in consultation with the adviser.

School of International Service

- Twenty-four credit hours of course work specific to the major area of which at least six credit hours must be in SIS.

Other course work may be taken in anthropology, economics, government, history, language and foreign studies (beyond the eighteen-semester-hour requirement), literature, interdisciplinary studies.

Note: SIS-degree candidates must include in their program a minimum of eighteen credit hours of SIS course work.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete 12 hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Foreign Policy Semester

Admission to the Program

Open to students from the Washington Semester member institutions as part of the Washington Semester program and to juniors and seniors in good standing at The American University. Recommended prerequisite for the Foreign Policy Semester program is at least one course in government or international relations and one in economics.

This program does not lead to a degree. Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Course Requirements

- 33.491 Special Seminars in International Studies (4)
- 33.492 Special Seminars in International Studies (4)
- 33.493 Special Seminars in International Studies (4)
- 33.494 Special Seminars in International Studies (4)

or a regular course from among the evening offerings at The American University.

Special Opportunities

Internships, Pan Ethnon, *Erwuy*, *The Diplomatic Pouch* and off-the-record seminars with foreign policy experts and career officials.

Minor in International Studies

Requirements

- 33.202 World Politics /S (3)
- One course from the following:
 - 33.381 Foreign Policies of the Great Powers /S (3)
 - 33.382 The Analysis of United States Foreign Policy /S (3)
 - 33.384 American Defense and Security Policy (3)
 - 33.385 United States Foreign Economic Policy /S (3)
 - 33.386 Comparative Foreign Policy (3)
 - 33.389 Selected Topics in Policy Analysis (3)
- One course from the following:
 - 33.258 Contemporary Russia /S (3)
 - 33.259 Contemporary East Europe (3)
 - 33.263 Contemporary South Asia (3)
 - 33.264 Contemporary Middle East /S (3)
 - 33.265 Contemporary Africa /S (3)
 - 33.276 Contemporary Latin America /S (3)
 - 33.355 The Relations of West European Nations /S (3)
 - 33.359 Soviet Union in World Affairs (3)
 - 33.361 Contemporary East Asia (3)
 - 33.366 Asian Power Rivalries (3)
- One course from the following:
 - 33.301 Theories of International Politics (3)
 - 33.307 Quantitative Approaches to International Politics (3)
 - 33.321 International Law (3)
 - 33.325 International Organization (3)
 - 33.340 Foundations of International Communication (3)
 - 33.349 Selected Topics in International Communication (3)
- Nine additional credit hours in SIS courses.
Of the total requirements twelve credit hours must be at the .300 level or above.

Graduate Degree Programs

(M.A. in International Affairs, M.A. in International Communication, M.A. in International Development, M.S. in Development Management)

Admission to the Programs

Applicants must hold an accredited bachelor's degree with a cumulative grade-point average of at least a B+ (3.30 or higher on a 4.00 scale) and should have had at least twenty-four credit hours of social-science course work relevant to international studies. Students who do not meet these minimum requirements, if otherwise admissible, are assigned additional course work in excess of degree requirements specified at the time of admission.

Fall admission is preferred for all master's degrees (application deadline February 15 each year). Admitted students may defer matriculation for up to two semesters

provided that a written request for deferment is submitted to and approved by both the SIS Graduate Office and the University Graduate Admissions Office. Admissions preference is given to applicants who plan to study on a full-time basis.

All applicants are required to submit results of the aptitude section of the Graduate Record Examination (GRE). In addition, international applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL). The minimum TOEFL score for full consideration is 600. See "International Student Information" in this publication. All applicants should plan to take the GRE and TOEFL no later than the December administration each year to ensure full consideration of application by the February deadline.

All applicants must submit two letters of reference evaluating undergraduate academic performance and suitability for graduate study in international affairs. Cultural factors are considered in evaluating transcripts and examination results.

Requests for the transfer of a maximum of six graduate credit hours from other accredited institutions to be applied to a master's degree are considered after successful completion of nine credit hours in the graduate program at The American University. A minimum grade of B in each course is required for transfer. Transfer courses must have been completed within eight years of admission and must fulfill stated requirements of the degree program.

General Degree Requirements

- At least thirty-six credit hours of approved graduate course work with a 3.00 cumulative grade-point average, including:
 - a) At least fifteen credit hours in a major field for degree including one theory or schools-of-thought course and one graduate-level economics or international-economic-policy course appropriate to the field.
 - b) At least nine credit hours in a related field selected from offerings in SIS or other teaching units of the University.
 - c) At least six credit hours in Social-Science Research Methodology appropriate to the degree program.
 - d) At least six credit hours of research: thesis, non-thesis option, or practicum research.
 - Passage of one written comprehensive examination in the major field for degree. To be eligible to take a comprehensive examination, a student must have advanced to candidacy and must have maintained at least a B average in all graduate course work. A list of comprehensive fields, and other information pertaining to comprehensive examinations is contained in the SIS Field Statements available in the Graduate Office.
- Passing the major field comprehensive examination qualifies a student to undertake the required demonstration of research skill.

- Demonstration of research and writing skill through completion of a master's thesis, a nonthesis option, internship and research paper, or a policy research practicum.

Thesis option: six credit hours of thesis credit and submission of the thesis.

Nonthesis options: internship and research paper: one three-credit-hour internship or cooperative education field experience, and one three-credit-hour substantial research paper taken in conjunction with a .600- or a .700-level course.

Policy research practicum: six credit hours supervised by major field faculty advisers (by permission and specific arrangement).

- Proficiency in a modern foreign language. Research competence in both English and another language relevant to the student's career objectives must be certified by the University's Department of Language and Foreign Studies.

Advancement to Candidacy

Students may apply for advancement to candidacy for the M.A. degree upon completion of nine hours of graduate course work with a B average at The American University.

Students qualifying for advancement must have removed all incomplete grades and satisfied all background deficiencies specified at the time of admission. At the time of advancement, students may request consideration of transfer of up to six credit hours from other master's work. If a student's grade-point average drops below B at the end of eighteen hours or at any time thereafter, the student's candidacy for degree may be terminated.

When applying for advancement to candidacy, students formally designate their major field of study, foreign language, social-science methodology sequence, and six-hour research requirement in consultation with faculty advisers. Advancement to candidacy qualifies a student to sit for the comprehensive examination. Students applying to take comprehensive examinations must have qualified in their major field of study and must apply for advancement before announced deadlines.

Special Opportunities

Independent-study courses, special lectures, and seminars enable students to meet renowned scholars and practitioners of international relations to discuss research and career interests. Internships and cooperative education field experience are available for graduate credit. A limited number of graduate fellowships and assistantships are awarded on the basis of merit as well as school and program needs.

M.A. in International Affairs

Major Field Concentrations

International Politics (IP), Comparative and Regional Studies (CRS), United States Foreign Policy (USFP).

Degree Requirements

- A total of thirty-six credit hours of approved graduate course work for International Politics.

A total of thirty-nine credit hours for Comparative and Regional Studies and for United States Foreign Policy.

- Advancement to candidacy (see general degree requirements).
- Certification of a modern foreign language (see general degree requirements).

Students with a major field concentration in Comparative and Regional Studies must demonstrate substantive research proficiency, at the FS-3 level at least, in a language of the geographic region of major focus.

- One written comprehensive examination. (For information on eligibility and procedures, see general degree requirements.)
- Thesis or nonthesis research options (see general degree requirements).

International Politics (IP)

Course Requirements

- Fifteen credit hours divided into theory, economics, and subfields.

Theory

Three credit hours selected from the following:
33.601 Introduction to Theory in International Relations (3)

or

33.604 Masterworks in International Relations (3)

Economics

Three credit hours selected from the following:

19.603 Introduction to Economic Theory (3)

or

one other 600- or 700-level course in economics provided prerequisites are met.

Subfields

Nine credit hours (including at least six hours in one of the following subfields):

International Political Economy

33.504 Multinational Corporations (3)

33.696 Selected Topics (Nonrecurring):

International Political Economy (3)

33.519 International Economic Policy Coordination (3)

33.615 Fundamentals of U.S. Foreign Economic Policy (3)

- 33.630 The European Community and International Trade (3)

International Law and Organization

- 33.520 Survey of International Law and Organization (3)
 33.621 International Law and Legal Order (3)
 33.625 World Organization and World Order (3)
 33.725 Seminar on Law and International Affairs (JD/MA) (3)
 33.729 Research Seminar in International Law and Organization (3)

Peace and Conflict Resolution

- 33.519 Human Rights (3)
 33.519 Cultural Determinants in International Politics (3)
 33.519 Peace Paradigms (3)
 33.519 Cooperative Global Politics (3)
 33.588 International Security and Arms Control (3)
 33.710 Colloquium in International Relations: Readings in Peace (3)

- Nine hours in a related field, including:

Three courses from one of the other major field groups in SIS: Comparative and Regional Studies (CRS); International Development (ID); International Communication (IC); United States Foreign Policy (USFP)

or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office selected from courses offered in other teaching units at The American University.

- Six hours in social-science research methodology consisting of:

One general course in social-science methodology such as 33.600 Introduction to Quantitative International Relations (3) and

One specific or topical methodology course (three credit hours) appropriate to the student's research interests.

- Six hours in research and writing consisting of:

33.797 Master's Thesis Supervision (6)
 or

Nonthesis option (see general degree requirements) on a topic in the field of International Politics. It should include 33.710 Colloquium in International Relations (3), which may be repeated once for credit (different topic and instructor required).

Comparative and Regional Studies (CRS)

Course Requirements

- Eighteen credit hours in Comparative and Regional Studies including:

33.670 Theory and Methods in Cross-National Studies (3)

or

a three-credit-hour course in international relations theory.

A second three-credit-hour course in comparative studies relevant to the major field concentration.

A three-credit-hour economics or international economic policy course appropriate to the major field concentration.

Nine credit hours of course work on a single geographic region. Students may choose from the following regions: Africa, East and Southeast Asia, Latin America, Middle East, USSR, or Western Europe. (See Field Statement for course recommendations and groupings pertaining to individual regions).

- Nine credit hours in a related field, including:

Three courses from one of the other major field groups in SIS: International Politics (IP), International Development (ID), International Communication (IC), United States Foreign Policy (USFP)
 or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office, selected from the courses offered in other teaching units at The American University.

- Six credit hours of social-science research methodology, including:

One general course in social-science methodology such as 33.600 Introduction to Quantitative International Relations (3) and

One specific or topical methodology course (three hours) appropriate to the student's research interest.

- Six credit hours of research and writing requirement from the following:

33.797 Master's Thesis Supervision (6)
 or

Nonthesis options (see general degree requirements).

The thesis must relate to the regional and comparative aspects of the CRS major field concentration. At least three credit hours of nonthesis research should do likewise. A practicum research course must receive prior approval from a faculty adviser as a proper and useful addition to the major field concentration for degree.

United States Foreign Policy (USFP)**Course Requirements**

- Eighteen credit hours in United States Foreign Policy, divided into theory, economics, and International economic policy, and subfields.

Theory

Three credit hours selected from the following:

- 33.689 Seminar in Foreign Policy Analysis (3)
or
33.581 Schools of Thought in Contemporary U.S. Foreign Policy (3)

Economics and International Economic Policy

Three credit hours selected from the following:

- 19.603 Introduction to Economic Theory
or

A suitable economic policy course in the Economics Department with prior approval of the International Economic Policy subfield coordinator, provided prerequisites are met. (Students with an extensive economics background may take an equivalency exam prepared by the Economics Department in lieu of 19.603.)

- 33.615 Fundamentals of U.S. Foreign Economic Policy (3)
or
33.696 International Political Economy I (3)

- 33.665 Contemporary International Trade and Investment Policies (3) (for students with a strong background in economics and with the prior approval of the International Economic Policy subfield coordinator)

- or
33.666 Contemporary U.S. Foreign Economic Policy: Finance, Energy, and Development (3).

A suitable economic policy course in the Economic Department with the prior approval of the International Economic Policy subfield coordinator, provided prerequisites are met

Subfields

Twelve credit hours in either the Defense and Foreign Policy subfield or the International Economic Policy subfield.

Defense and Foreign Policy

- 33.682 United States Foreign Policy (3)
33.689 Seminar in Foreign Policy Analysis (3)
33.684 National Security Policy (3)
33.583 U.S. in World Affairs (3)

- 33.588 International Security and Arms Control (3)
33.581 Schools of Thought in Contemporary U.S. Foreign Policy (3)
33.519 Congress and Foreign Policy (3)
33.519 Domestic Sources of U.S. Foreign Policy (3)
33.519 U.S. Diplomatic History, 1789-1941 (3)
33.519 U.S.-U.S.S.R. Relations (3)

Special SIS topics courses (offered irregularly) relating directly to U.S. foreign policy, such as Conduct of American Diplomacy, country- or region-specific courses or select functional issues courses (law, illicit drugs, intelligence, arms control). With the prior approval of the Defense and Foreign Policy subfield coordinator, a non-SIS course relating directly to U.S. foreign policy, may be taken.

International Economic Policy

- 33.615 Fundamentals of U.S. Foreign Economic Policy (3)
33.665 Contemporary International Trade and Investment Policy (3)
33.666 Contemporary U.S. Foreign Economic Policy: Finance, Energy, and Development (3)
19.603 Introduction to Economic Theory (3)
19.611 Introduction to International Economics (3)

With the prior approval of the International Economic Policy subfield coordinator, suitable economic policy and economic theory courses offered by the Economics Department may be taken provided that prerequisites are met.

- Nine credit hours in a related field.

Students must take three courses in a field related to USFP. However, students electing the International Economic Policy subfield may elect the Defense and Foreign Policy subfield as their related field. If so, they must take 33.682 United States Foreign Policy and two other subfield courses. Similarly, students in the Defense and Foreign Policy subfield may elect the International Economic Policy subfield as their related field. If so, they must take three courses in the International Economic Policy subfield.

The related field requirement may also be satisfied by:

Three courses selected from among the core or principal courses offered by one of the other major field groups in SIS (IP, ID, IC, CRS)

or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office selected from courses for recognized comprehensive examination fields offered in other teaching units at The American University.

- Six credit hours in social-science research methodology:

One general course in social-science research methodology (3) and

One specific or topical methodology course (3) appropriate to research interests.

- Six credit hours of research and writing:
33.797 Master's Thesis Supervision (6) or
Nonthesis options (see general degree requirements).
A thesis, nonthesis research, or practicum must relate clearly to one of the USFP subfields. A practicum research course must receive prior approval from a faculty adviser as a proper and useful addition to the degree program.

M.A. in International Communication (IC)

Admission to the Program

See general admission requirements for master's degrees.

In addition, students applying for admission to this program must have had a strong undergraduate major or minor in social and behavioral sciences or communication. For further information, write to the Director, Program in International Communication, School of International Service, The American University, Washington, DC 20016.

Degree Requirements

- A total of thirty-six credit hours of approved graduate course work.
- Advancement to candidacy (see general degree requirements).
- Certification of a modern foreign language (see general degree requirements).
- One written comprehensive examination in International Communication (For information on eligibility and procedures, see general degree requirements).
- Thesis or nonthesis research options (see general degree requirements and IC course requirements).

Course Requirements

- Fifteen credit hours of major field courses in International Communication:
33.640 International Communication (3)
(prerequisite for all major field courses)
33.641 Psychological and Cultural Bases of International Politics (3)
33.642 Cross-Cultural Communication (3)
33.644 Communication and Social and Economic Development (3)

33.645 International and Comparative Communication Policies (3)

- Nine credit hours in a related field.

Three courses approved by the IC faculty from one of the other major field groups in SIS: IP, ID, CRS, USFP, or

Three courses making up an optional related field constructed in consultation with the student's faculty adviser or the SIS Graduate Office selected from courses offered in other teaching units at The American University.

- Six credit hours of social-science research methodology from the following:
33.695 Research Seminar in International Communication (3)
33.696 Special Research Methods in International Communication (3)
and

One specific or topical methodology course (3) appropriate to the student's research interests and approved by the IC faculty.

- Six credit hours of research and writing from the following:
33.797 Master's Thesis Supervision (6) or
Nonthesis options (see general degree requirements) selected from the following:
33.643 Communication and Political Development (3)
33.690 Independent Study (Consultation with and approval of the IC faculty are required.)
33.691 Internship (3) or
33.692 Cooperative Education Field Experience (3)
33.740 Colloquium in International Communication (3)

A thesis must relate to the major field of International Communication and at least three credit hours of nonthesis research should do likewise. A practicum research course must receive prior approval from the IC faculty as a proper and useful addition to the degree program.

M.A. in International Development (ID)

Admission to the Program

See admission requirements for master's degrees.

Degree Requirements

- A total of forty-two credit hours of approved graduate course work.

- Advancement to candidacy (see general degree requirements).
- Certification of a modern foreign language (see general degree requirements).
- Thesis or nonthesis, research options (see general degree requirements).
- One written comprehensive examination in International Development

Course Requirements

- Fifteen credit hours of core courses:
 - 19.603 Introduction to Economic Theory (3) (this course may be waived by an examination administered by the Economics Department. This waiver reduces the total number of credit hours required for the program to thirty-nine)
 - 33.637 International Development (3)
 - 19.560 Survey of Economic Development (3) (prerequisite: 19.603)
 - 33.636 Micropolitics of Development (3)
- One of the core courses must be in one of the following:
- 33.537 Urban Development (3)
 - 33.537 Rural Development (3)
 - 33.639 Developmental Problems and Sectoral Strategies (3)
 - 33.696 National Sectoral Development Strategies (3)

- Fifteen credit hours in related field concentrations.

With the agreement of the student's faculty adviser, five courses must be selected from an approved list of courses, with at least nine credit hours selected from one specific concentration as follows:

Economics and Finance and

International Economic Policy

- 19.510 Cost-Benefit Analysis (3)
- 19.524 International Economics: Trade (3)
- 19.525 International Economics: Finance (3)
- 19.533 Development Banking (3)
- 19.564 Development Finance
- 19.611 Introduction to International Economics (3)
- 19.710 Advanced Theories of Growth and Development (3)
- 33.615 Fundamentals of United States Economic Foreign Policy (3)
- 33.504 Multinational Corporations (3)
- 33.638 Selected Topics in International Development Skills (1)

Development Management

- 54.610 Public Management (3)
- 54.614 Development Management (3)
- 33.537 Project and Program Analysis (3)
- 33.537 Managing Decentralization (3)
- 33.638 Selected Topics in International Development Skills (1)

Developmental Banking

- 19.510 Cost Benefit Analysis (3)
- 19.533 Development Banking (3)
- 19.564 Development Finance (3)
- 19.633 Development Project Cycle (3)
- 19.634 Negotiating Loan Contracts (3)
- 19.635 International Capital Markets (3)

Development Education

- 21.583 Curriculum Construction (3)
- 21.625 Global and Multicultural Education (3)
- 21.631 Introduction to Administration in Education, Training, and Development (3)
- 21.635 Training Designs: Theory and Practice (3)
- 21.639 Administrative Effectiveness Workshop (3)
- 21.678 Comparative and International Education (3)
- 21.679 Nonformal Education (3)

Community Development and Basic Needs

- 21.579 Nonformal Education (3)
 - 33.536 Health and Development (3)
 - 33.537 Small Scale Enterprise Development (3)
 - 33.537 Rural Development (3)
 - 33.537 Urban Development (3)
 - 33.537 Women in Development (3)
 - 33.537 World Food Resources and Policies (3)
 - 33.537 Population and Development (3)
 - 33.638 Selected Topics in International Development Skills (1)
 - 54.533 Community Change in the Third World (3)
- Students may propose other elective options from one of the other major field groups in SIS (IP, IC, CRS, USFP) or from offerings in other teaching units with the approval of the faculty adviser and the IDP director.

- Six credit hours in social-science research methodology.

One general course in social-science methodology (3) and

One specific or topical methodology course such as 33.600 (3) appropriate to the student's research interests and approved by the ID program.

- Six credit hours of research and writing.

33.797 Masters Thesis Supervision (6) or
Nonthesis research options (see general degree requirements).

Special Opportunities

International Development Forum The School of International Service, in conjunction with the Washington Chapter of the Society for International Development, sponsors a weekly forum in which noted scholars and policy makers are invited to interact on campus with students, faculty, and members of the Washington development community in discussions of current issues in the international development field.

M.S. in Development Management

The Master of Science in Development Management (MSDM) offers a unique opportunity to combine development and public administration to provide state of the art training and practice in development management, as presently being developed both in the United States and at important centers in the Third World. The American University's Washington, D.C. location provides a special opportunity to examine major international-development organizations and to meet with noted scholars and practitioners active in the field.

Admission to the program.

See general admission requirements for master's degrees.

Preference is given to applicants who have significant experience working on development problems or projects in the U.S., Western Europe, or in developing countries.

A student who has performed successfully for more than two years as a program or project manager, management analyst, personnel specialist, budget examiner, or in a significant managerial role above the trainee-professional level before admission to the program may apply through the director of the MSDM program to the dean of SIS to have the total program requirements reduced by up to six credit hours. This application takes place as part of the student's advancement to candidacy (see general requirements) and must make reference to a number of areas in which the student has acquired basic competence. Credit earned as part of an internship program does not count in this provision.

Degree Requirements

- Forty-two credit hours of approved graduate course work.
- Advancement to candidacy (see general degree requirements).
- Certification of a modern foreign language as a tool of research (see general degree requirements).
- One written comprehensive examination in Development Management. (For information on eligibility and procedures, see general degree requirements).
- Nonthesis research requirement: The research requirement for degree is met by completing six credit hours of practicum research.

Course Requirements

- Eighteen credit hours in the major field of concentration.
19.603 Introduction to Economic Theory (3) (this course may be waived by an examination administered by the Economics Department. This waiver reduces the total number of

credit hours required for the program to thirty-nine)

- 33.637 International Development (3)
- 33.636 Micropolitics of Development (3)
- 54.610 Public Management (special section for MSDM) (3)
- 54.614 Development Management (3)
- 19.560 Survey of Economic Development (3)

- Twelve credit hours in related fields of concentration.

With the agreement of the student's faculty adviser, four courses must be selected from an approved list of courses, with at least nine credit hours selected from one specific concentration as follows:

Program and Project Management

- 33.537 Program and Project Analysis (3)
- 33.537 Management of Decentralization (3)
- 33.638 Special Topics in International Development Skills (1)
- 33.696 Information Systems and International Communication (3)
- 54.608 Comparative Administrative Systems (3)
- 54.613 Administration of International Programs (3)
- 54.611 Organization Planning and Control (3)

Development Management and Information Systems

- 55.511 Concepts in Information Systems (3)
- 55.560 Systems Analysis and Design (3)
- 55.606 Quantitative Methods in Information Systems (3)
- 55.660 Information Systems Design and Development (3)

Other approved courses that can be used in conjunction with concentrations as specified above.

- 33.537 Rural Development (3)
- 33.537 Urban Development (3)
- 33.537 World Food Resources and Policies (3)
- 33.537 Small Scale Enterprise Development (3)
- 33.638 Selected Topics in International Development Skills (1)
- 33.639 Development Problems and Sectoral Strategies (3)

Students may propose other elective options from one of the other major field groups in SIS (IP, IC, CRS, USFP) or from offerings in other teaching units only with the approval of the faculty adviser and the MSDM director.

- Six credit hours of social-science research methodology.

One general course in social-science research methodology such as 33.600 Introduction to Quantitative International Relations (3)

One specific or topical methodology course (3) appropriate to the student's research interests and approved by the MSDM program.

- Research and Writing Requirement:
33.693 Practicum: Action Research in Development Management (6) Must be completed with a grade of B or better.

Special Opportunities

See MA:ID program regarding the International Development Forum.

Ph.D. in International Relations

Admission to the Program

Applicants for the Ph.D. degree program usually hold a master's degree or its equivalent in a field related to international relations. Students who have not progressed beyond a bachelor's degree may be admitted if they are qualified. Applicants should present a prior cumulative grade-point average that is substantially above B (3.50 or higher on a 4.00 scale) in a field relevant to international relations.

All applicants are required to submit results of the aptitude section of the Graduate Record Examination (GRE). In addition, international applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL). The minimum TOEFL score for full consideration is 600 (see "International Student Information" in this publication). Note: All applicants should plan to take the GRE no later than the December administration each year to ensure full consideration of application by the January deadline.

Applicants for the Ph.D. degree are considered and admitted only for the Fall semester each year. The school does not permit students to begin their doctoral work in the Spring. Deferral of matriculation in the Ph.D. program is not permitted. In order to be considered for Fall admission, applications and all supporting materials must reach the Office of Admissions no later than January 15. Admissions preference is given to applicants who plan to study on a full-time basis.

All applicants must submit at least three letters of reference which evaluate their graduate performance and their suitability for undertaking doctoral study in international relations. Cultural factors are considered in making admissions decisions and in evaluating transcripts and examination results. Candidates under active consideration may be invited for personal interviews.

Doctoral students may transfer up to thirty credit hours of previous graduate course work earned at accredited institutions with minimum grades of B in each course. Previously earned graduate credits are applied to Ph.D. program requirements if they are relevant to students' programs and dissertation topics. Requests for transfer of graduate credit are considered at the time of advancement to candidacy. Credits completed more than eight years before the semester of matriculation are not transferable.

Major Requirements

- A total of seventy-two credit hours of approved graduate course work, including at least twelve credit hours of dissertation supervision and participation in the semi-monthly Research Seminar.
- A minimum grade point average of 3.25 in all doctoral level course work is required. Any incomplete grades or course deficiencies specified at the time of admission must be removed before a student applies

for advancement to candidacy. Applications, procedures, and other requirements for advancement may be obtained in the SIS Graduate Program Office.

- Advancement to candidacy following completion of the Oral Qualifying Examination and certification of proficiency in one modern foreign language.
- Students must be certified as proficient in one modern foreign language. Certification is by examination administered by the Department of Language and Foreign Studies and is a condition for advancement to candidacy. For language certification, the proficiency required for European languages is 4-level for Asian languages, 2-level, and for other languages, 3-level, as measured by the standards of the Foreign Service Institute of the U.S. Department of State.
- Four doctoral comprehensive examinations:

Students must sit for an oral qualifying examination during the semester following completion of seminars constituting the international-relations theory core. Satisfactory performance on this examination and certification of proficiency in one modern foreign language constitute advancement to candidacy and qualify students to sit for their field examinations. Students will also be required to present a general statement of plans for a dissertation project for the oral qualifying examination, although the formal proposal for acceptance and for assignment of a faculty committee is presented only after the student has passed all comprehensive examinations.

Students must sit for two written comprehensive field examinations. Students must designate one examination field from the five graduate examination fields offered by the school to serve as a dissertation field. They may designate a second field from those offered by the school or from other teaching units of the university offering doctoral instruction. As an alternative, students may construct a special field, with permission of the Director of Doctoral Studies and on the advice of three qualified scholars, at least two of whom must be members of the university faculty and all three of whom must agree in writing to serve on an examining committee.

No later than the semester following completion of the written field examinations, students must present their dissertation proposals to the Research Seminar (see course requirements), having circulated copies to all members of the school's faculty at least two weeks in advance of such presentations. These occasions will serve as integrative oral comprehensive examinations, to be evaluated as such by members of the university's faculty whom the Director of Doctoral Studies has designated as examiners.

For details on scheduling procedures for comprehensive examinations, see the Director of Doctoral Studies or the SIS Graduate Program Office.

- Dissertation and defense of the dissertation in an oral examination.

The dissertation requires original research of high quality in a subject that is directly related to international relations and the student's program emphasis.

Course Requirements

- International relations theory: doctoral students must take three doctoral seminars constituting a theory core.
 - 33.701 Development of the Study of International Relations (3)
 - 33.702 Comparative and Cross-national Studies (3)
 - 33.703 Contemporary International Relations Theory (3)
- Social-science research methodology: doctoral students must satisfy a twelve-credit-hour requirement in research methods, including:
 - 33.704 Conduct of Inquiry in International Relations (3)
 - 33.715 Seminar on Advanced Research Design (3)

Two other courses drawn from a university-wide inventory of courses in social-science methods appropriate to the degree and to the student's research interests.

Graduate-level methods courses taken at other universities may be counted in fulfilling this requirement only with permission of the Director of Doctoral Studies.

- Doctoral-level course preparation in two other comprehensive examination fields. Students must take at least two other doctoral seminars. Normally students will take seminars in the fields they intend to offer for the written comprehensive examinations. Also see the SIS program statements for SIS major fields in International Politics (IP), Comparative and Regional Studies (CRS), United States Foreign Policy (USFP), International Communication (IC), and International

Development (ID). (See comprehensive examinations above for appropriate courses and seminars).

- Research and writing requirement: 33.799 Doctoral Dissertation Supervision (12)

Students participate for at least four semesters in a semi-monthly Research Seminar one credit per semester, counted toward the university's twelve-hour dissertation supervision requirement, (graded pass/fail) in which doctoral students, members of the school's faculty, and invited scholars present their current research. Approval of dissertation proposals is contingent on their presentation to the Research Seminar.

After presentation to the Research Seminar and passage of the integrative oral comprehensive examination, dissertation proposals must be approved by three scholars who the Director of Doctoral Studies has ascertained are qualified. At least two members of dissertation committees must also be members of the university's full-time faculty and at least one must also be a member of the school's faculty. Chairs of dissertation committees must be members of the school's faculty. Dissertation proposals must also be approved by the SIS dean.

Students must successfully defend their dissertations in an oral examination on occasions to which the entire university community is invited. Two weeks notice in the *American Reporter* satisfies this requirement (see Graduate Office). Students must present a completed draft of their dissertations for defense. That draft need not conform to the university's style requirements for dissertations. Students and chairs of dissertation committees are responsible for the final drafts of dissertations meeting university style requirements. Dissertations must be approved by the SIS dean.



Supreme Court associate justices (from left) Harry Blackmun, William Brennan, and John Paul Stevens hear a moot court debate on the authorship of the works attributed to William Shakespeare.

Washington College of Law

Dean (Interim) Elliott S. Milstein

Associate Dean for Student Affairs Edwin R. Hazen

Associate Dean for Institutional Advancement
Paul P. Purta

Assistant Dean for Finance and Administration
Joanne C. Lawton

Director of the Law Library Patrick E. Kehoe

Director of Clinical Programs Robert D. Dinerstein

Director of Graduate International Legal Studies
Claudio M. Grossman

Overview of the Law School

The Washington College of Law was founded in 1896. It has a full-time faculty of 40 and a student body of approximately 1,000. The law school combines a rigorous and challenging atmosphere for legal studies with a highly personal approach to teaching.

The focus of the curriculum is on the methodology, practical skills, and theories fundamental to the practice of law. This is carried out through a wide range of traditional course offerings, supplemented by an extensive clinical program, simulation courses, and an international law program. These educational offerings are complemented by the vast legal network of federal agencies, courts, regulatory commissions, international organizations, and law firms present in Washington.

Legal Study in Washington

The American University Washington College of Law is located in the northwest section of the city a short distance from Congress, the Supreme Court, the United States District Court and Court of Appeals, and the Maryland, Virginia, and District of Columbia courts. Washington is the center of all federal regulatory process, and is the principal home of every major federal agency, such as the Securities and Exchange Commission, the Federal Communications Commission, the Internal Revenue Service, and the Federal Trade Commission. Washington is also the base for

U.S. cabinet-level departments, for example, the Department of Energy, the Department of Education, the Department of Justice, and other agencies, all of which perform functions critical to the federal system and contribute to an environment for legal education unparalleled outside this city. Accordingly, judicial, executive, and legislative internships form an integral part of the legal education of many of our students. In addition, Washington is the seat of the world's principal intergovernmental financial institutions: the World Bank, the International Monetary Fund, and the Inter-American Development Bank are here. So, too, are the Organization of American States and the International Telecommunications Satellite Organization. Private or nongovernmental organizations, among them Amnesty International and the International Human Rights Law Group, have offices in Washington, and a majority of the world's leading international law firms can be found in this city.

Taking advantage of this natural setting for study and work, the law school offers many unique courses taught by its full-time faculty and by specialists who are members of the adjunct faculty. Field components are available in various courts and government agencies, and are carefully supervised by faculty members and designated field supervisors. For second- and third-year students interested in part-time law-related jobs, the Career Planning and Placement Office coordinates requests for law student employment from law firms, corporations, courts, and government agencies. Further, the law school offers a unique training program in federal regulatory process—the Washington Law Semester Program—which has a separate lecture faculty of forty-five top-level officials from the government and private sector.

The Academic Program

The American University law school has a strong national and international substantive focus, offering a broad range of courses in addition to the basic program necessary for state bar examinations. The law school clinic is divided into two parts, the Criminal Justice Clinic and the Public Interest Clinic. The Criminal Justice Clinic permits

students to handle criminal cases from the perspective of both the defense and the prosecution. The Public Interest Clinic permits students to work on extensive major federal litigation, involving both federal agencies and courts. The Public Interest Clinic has recently focused on the Veterans Administration, though the subject matter of this program is flexible. Beyond the classroom, the clinical program, and field placements at federal, state, and local agencies, courts, and legislatures, the academic offerings are enriched by an extensive independent study research program allowing for intensive faculty-student work on complex legal research projects. Finally, *The American University Law Review*, *The American University Journal of International Law and Policy*, and *The American University Administrative Law Journal* provide opportunities for students to develop expertise in traditional legal writing and research.

The basic first-year classes are taught using case analysis and dialogue as well as the problem method. First-year students take an intensive course in legal research and writing taught by attorneys from leading law firms or government agencies. Upper-class courses are mostly elective and include a wide variety of teaching styles and formats. The academic program leading to the Juris Doctor degree is designed to allow students to develop special skills in public law, business and commercial law, international law, property and land use, and related fields. In addition to the Juris Doctor program, the law school offers a Master of Laws (LL.M.) in International Law and participates in three joint degree programs: the J.D./M.A. in Law and International Affairs, the J.D./M.B.A. in Law and Business, and the J.D./M.S. in Law and Justice. The LL.M. in International Legal Studies permits specialization in one of three areas: international finance and banking; international economic transactions and commerce; and international organizations.

These programs are all greatly enhanced by the availability of the many excellent research law libraries which are located in the city of Washington and which comprise resources unmatched elsewhere. The Washington College of Law's own Alvina Reckman Myers Law Library contains

a book collection of some 300,000 volumes and provides computerized legal research facilities for students and faculty using its LEXIS and WESTLAW terminals. The law library is the research base for the entire academic program, serving students and law faculty.

Student Body

Students at the law school come from several nations, more than forty states, and 250 undergraduate colleges and universities. Approximately half are women. There are a number of law students who have extensive work experience or advanced degrees in other disciplines. Students participate in numerous organizations, including the *Law Review*, the *Journal of International Law and Policy*, the *Administrative Law Journal*, the Moot Court Program, the Student Bar Association, the Black Law Student Association (BLSA), the Hispanic Law Student Association, the Asian Pacific-American Law Student Association, the Women's Law Association, and the International Law Society. The students are actively involved in the governance of the school and sit on most faculty committees.

Admissions

The law school receives approximately 5,000 applications for about 300 places in the J.D. program entering class. The average LSAT of entering students is 37 and the average grade-point average is 3.4. The Admissions Committee uses a rolling admissions system and notifies applicants as decisions are made. There are limited places for transfer and unclassified students. Financial aid, based on need, is available in the form of scholarships and loans. Second- and third-year students with good academic records are eligible for Deans' Research and Teaching Fellowships. Specific requests for information regarding admissions, financial aid, or programming should be sent directly to the Washington College of Law, The American University, Washington, D.C. 20016.

The School of Public Affairs

Dean Cornelius M. Kerwin

Associate Dean Jenny G. McGough

Academic Counselor Brenda James

Academic Counselor Jean Kinnahan

Academic Counselor Athena Smith

Department of Government

Chair G.M. Bonham

Department of Justice, Law, and Society

Chair James J. Fyfe

Department of Public Administration

Chair R.P. Boynton

Full-Time Faculty

Professor D. Aaronson, R.R. Bennett, G.M. Bonham, R.P. Boynton, R.E. Cleary, E.H. DeLong (Dean Emeritus), J. Fishel, J.J. Fyfe, C.H. Goodman (Emeritus), M. Greenberg, S.W. Hammond, J.J. Hanus, L.H. Hattery (Emeritus), D.B. James, R. Johnson, C.M. Kerwin, D.H. Koehler, L. Langbein, W.M. LeoGrande, H.E. McCurdy, M. Meadows, E.V. Mittlebecker (Emeritus), R.A. Myren (Emeritus), A. Perlmutter, N.S. Preston (Emeritus), I. Robbins, E.S. Robinson (Emeritus), B.H. Ross, D.J. Saari, B.R. Schiller, M. Segal, L. Shelley, R.J. Simon, R.G. Smolka, J.A. Thurber, A.S. Trebach, E.C. Viano, M.P. Walker, R.I. Weiner

Associate Professor L.S. Etheredge, J.P. Gunning, R.A. Lane, H. Lieber, B.F. Norton, R. Stout, Jr., D.G. Zauderer

Assistant Professor C.A. Degregario, C.H. Foreman, P.J. Hanke, R.G. Higgins, G.B. Lewis, J.P. Lynch, D.R. Minns, T.N. Tschudy

Instructor T.J. Weko, G.W. Hutchison

Research Professor A.D. Biderman, F.A. Hermans

Distinguished Adjunct Professors in Residence A. Alpern, M. Comarow, B. Rosen

The School of Public Affairs is committed to education and research programs in the field of public affairs. An interest in public affairs reflects a concern for people and how they interact with government institutions and political systems. Students are able to pursue this interest through a comprehensive educational experience that includes classroom instruction, individual research, and practical professional training. Through its three departments—the Department of Government; Department of Justice, Law, and Society; and the Department of Public Administration—the school provides a comprehensive and unified approach to the study of public affairs at the local and national level. Each program is designed to focus on specific career interests, including careers in government and not-for-profit organizations, but all are multidisciplinary, issue and policy oriented, and adapted to Washington's unique educational opportunities.

Washington is an ideal location for studying public affairs. As the site of national government and as a world capital, the city provides students with vivid evidence of the interrelationships of domestic and foreign politics. Students can observe first hand the political, economic, and environmental forces shaping public affairs and public policy. As an integral part of the curriculum, internships in private and public organizations lend a practical dimension to the academic programs and provide the opportunity to interact with policy makers. Washington's facilities for scholarly research and personal enrichment include such government institutions as the Library of Congress, the National Archives, and the Smithsonian Institution, as well as many departmental and agency libraries.

The School of Public Affairs, drawing on the facilities of the university, the Consortium of Universities of the Washington Metropolitan Area, and the Washington community, offers a unique combination of resources for study and practical experience in the field of public affairs. The school's comprehensive range of academic and professional programs leads to degrees at the bachelor's, master's, and doctoral levels.

sional programs leads to degrees at the bachelor's, master's, and doctoral levels.

The Faculty

The school has more than fifty full-time faculty members including both nationally recognized scholars and others distinguished by their public service. Augmenting the full-time faculty is an adjunct faculty of eminent government officials and public-affairs practitioners who bring to the classroom the special insights acquired in their professional experience.

Internships and Cooperative Education Opportunities in Washington

The school encourages qualified students to work for course credit as interns in governmental, political, and private organizations. These internships are designed to give students practical involvement in political processes or action programs. For example, a student might work for a member of Congress, the Department of State, the Department of Justice, or for other organizations directly concerned with public policy. Students may also participate in the Cooperative Education Program, which combines course credit and paid practical experience. (See the Cooperative Education Program section in this publication.)

Independent Study Programs

The School of Public Affairs encourages students to engage in independent study projects related to their fields of interest. These usually take the form of reading, research, and field work in the Washington area, and are arranged directly with a faculty member. Course credit is given.

Career and Professional Opportunities

A public affairs education prepares students for a variety of careers. Graduates serve public or private agencies where they assist in creating or implementing policy alternatives. Some teach public administration, public management, political science, justice, and related courses at universities, colleges, or secondary schools. Others seek opportunities in private-sector professions not formally related to their degree programs. Alumni are serving as city managers, lawyers, management analysts, investigators, legislative assistants, budget or systems analysts, newspaper editors, research associates, professors, and government officials, appointed and elected.

Honorary Societies

The school recognizes both academic and professional achievement by students and alumni through membership in national honorary societies. Pi Sigma Alpha, the national political science honor society, founded in 1920, is open to selected juniors, seniors, and graduate students majoring in political science or international relations.

Alpha Phi Sigma is the national honor society for criminal justice. It recognizes scholastic excellence by undergraduate and graduate students in the justice field. Sigma Phi Omega, the university's prelaw honor society, is open to all qualified undergraduate students, sophomore and above.

Pi Alpha Alpha is the National Honorary Society for Public Affairs and Administration. The School of Public Affairs has one of the eighteen charter chapters. Selected seniors and graduate students completing their programs are invited to join if they meet the academic standards set by the chapter.

Undergraduate Study

Undergraduate students may plan their academic programs to meet personalized learning objectives.

Recognizing that a multidisciplinary education is required to meet the ever-changing nature of the public affairs profession, advisers often encourage students to take courses in other academic units.

Study Abroad

The School of Public Affairs provides opportunities for study abroad, from the traditional Junior Year Abroad to special programs such as the London, Rome, Copenhagen, Brussels, Bonn, Vienna, Buenos Aires, Caribbean, and Beijing semesters. In addition, the summer sessions include courses, workshops, and tours abroad which are relevant to the curriculums.

Graduate Study

The graduate degree programs in the School of Public Affairs serve a number of diverse educational needs. Most master's programs educate students for specific professional careers in government and other nonprofit organizations at local and national levels. These programs emphasize managerial, analytical, and conceptual skills necessary for professional success in the public service. Others provide students with a general understanding of the academic disciplines related to public affairs. Doctoral programs are designed to prepare qualified individuals for professional appointments in teaching, scholarly research, and executive management and are offered in political science, public administration, and sociology; justice.

Unique Educational Resources

Computer-aided instruction and research is encouraged and facilitated by a variety of technical resources. The university operates quantitative teaching and research laboratories to introduce students to the use of computers, statistics, and mathematical methods in social research and management applications. These labs are staffed with graduate assistants who tutor new users and provide professional consulting to experienced users.

Through the lab, students have access to IBM personal computers or to the IBM 4381 mainframe computer operated by the university. Software is provided for the personal computers for word processing, spreadsheets, graphics, statistics, mathematical modeling, and computer-programming applications. An extensive selection of programs and languages is available on the mainframe for social science applications, including the Statistical Package for the Social Sciences (SPSS) and the Statistical Analysis System (SAS). As a member institution of the Inter-University Consortium for Political and Social Research, the school has access to thousands of social science data sets and maintains hundreds of these on tape at the university.

Government

Chair G.M. Bonham

Full-Time Faculty

Professor G.M. Bonham, J. Fishel, M. Greenberg, S.W. Hammond, J.J. Hanus, D.B. James, W.M. LeoGrande, M. Meadows, A. Perlmutter, J.A. Thurber, M.P. Walker

Associate Professor L.S. Etheredge, R.A. Lane, B.F. Norton, Jr.

Assistant Professor C.A. Degregario, C.H. Foreman, D.C. Minns

Instructor T.J. Weko

Research Professor F.A. Hermans

The Department of Government makes use of the special opportunities available to it from its location in the nation's capital for the teaching and study of political science and public affairs.

The department's undergraduate program focuses on government and public affairs as an aspect of a broad liberal arts education. It prepares the student for an enlightened role in national and community affairs. This program can lead to a career in public affairs or any private or not-for-profit area that deals with the growing interrelationship between the public and private sectors. It also provides a solid and comprehensive foundation for the student who plans to pursue further education before entering a career in public affairs or politics, governmental administration, law, teaching, or research.

The graduate program is designed to prepare students for academic or professional careers in public affairs or policy analysis. The master's and doctoral programs in political science are flexible in order to meet the educational needs of a diverse student population.

B.A. in Political Science

Admission to the Program

New freshmen and transfer students are admitted through the university's Office of Admissions. Students currently enrolled in the university who wish to transfer into the Department of Government or develop a double major or minor should have a 2.00 grade-point average and the approval of the undergraduate academic adviser.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-four credit hours with grades of C or better.

Course Requirements

- 53.105 Individual Freedom vs. Authority /A 2:1 (3)
or
53.200 Modern Political Thought (3)
or
53.301 Classical Political Thought (3)
- 53.110 The Individual and the Polity /S 4:1 (3-4)
or
53.120 Introduction to American Politics /S (3-4)
- One of the following:
53.130 Comparative Politics /S 3:1 (3)
53.231 Third World Politics /S (3)
53.330 Politics of Industrial Societies /S (3)
- One of the following:
33.110 Beyond Sovereignty /S 3:1 (3)
33.202 World Politics /S (3)
33.381 Foreign Policies of the Great Powers (3)
33.382 The Analysis of United States Foreign Policy (3)
- Three hours of social science research methods or any approved statistics course.
- Twenty-one credit hours at the 200 or 300 level.
- Six credit hours at the 400 or 500 level.
- Twelve credit hours to be distributed over two of the following cognitive disciplines above the introductory level: economics, history, international relations or foreign policy, sociology and specified courses in American studies, anthropology, communication, justice, philosophy, and psychology.

No more than nine hours (with a maximum of six hours in any one area of concentration) of the following may be applied to these requirements: internships, co-operative education, independent study, independent reading, Washington Semester programs, and American University study abroad programs.

Political science majors may count up to three courses offered by the School of International Service, in addition to 33.202, 33.381, or 33.382 as part of the major and related course requirements. Students using two School of International Service courses under the major are limited to one School of International Service course under related course requirements.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Interdisciplinary Studies: Communication, Legal Institutions, Economics, and Government (CLEG)

Admission to the Program

This interdisciplinary major is designed for students who want a breadth of background necessary to participate effectively in decision making for public affairs and the practical training necessary to deal with social problems as public issues. Admission requires a 2.00 grade-point average and approval by the undergraduate academic adviser. All arrangements for the major should be made no later than the first semester of the junior year.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of fifty-seven credit hours with grades of C- or better.

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.310 Public Speaking (3)
- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 53.110 The Individual and the Polity /S 4:1 (3-4)
or
53.120 Introduction to American Politics /S (3-4)
- 53.391 Internship (3-9)

- 53.490 Independent Study Project in Government (3) or CLEG Seminar (3)
- 73.104 Introduction to Systems of Justice /S (3)
- 53.105 Individual Freedom vs. Authority /A 2:1 (3)
or
53.200 Modern Political Thought (3)
- 53.352 Law and the Political System /S (3)
or
53.215 Civil Rights and Liberties /S 4:2 (3)
- Twenty-four additional credit hours, including twelve hours at the 300 level or above, selected from a list of approved courses in communication, legal institutions, economics, and government. The list of approved courses is available in the Department of Government office. Students must choose these twenty-four additional hours so that their total program includes nine hours from each CLEG area.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Washington Semester Program in American National Government

Admission to the Program

This special, one-semester program draws on the unique environment of Washington to offer students a full program of seminars with decision makers and others involved in the policy process; an internship in a governmental office or with an interest group; and either a research project or a course elected from regular university offerings. The program is open to students of The American University and students from institutions across the country. Requirements for admission to the program are (1) nomination by a Washington Semester faculty representative; (2) at least a 2.50 grade-point average on a 4.00 scale; (3) at least one course or equivalent in American national government; and (4) at least second-semester sophomore standing at the time of participation. Selection is competitive.

This program does not lead to a degree. Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Course Requirements*American National Government*

- 53.410 Washington Semester in American Government and Politics Seminar I (4)

- 53.411 Washington Semester in American Government and Politics Seminar II (4)
- 53.412 Washington Semester in American Government and Politics Research Project (4)
- 53.416 Washington Semester in American Government and Politics Internship (4)
or
a regular American University course from among evening offerings.

Washington Summer Seminar

Admission to the Program

This special, two-week summer program introduces high-school students to government in action in Washington, D.C., through seminars with practitioners in public affairs, with those seeking to influence policy, and with faculty who observe the political process. A student must be nominated by a guidance counselor or social studies teacher and have a C or better average.

This program does not lead to a degree. Students earn two credit hours of undergraduate credit that may be applied toward the requirements for an undergraduate degree.

Course Requirements

- 56.100 Washington Summer Seminar (2)

Special Opportunities

Students attend cultural performances in Washington as part of the program.

Semester in London

Admission to the Program

The program is open by competition to juniors and seniors. The minimum grade-point average for consideration is 2.75 on a 4.00 scale. Academic excellence and an ability to adapt to another culture are essential.

This program does not lead to a degree. Students receive sixteen semester hours of undergraduate credit that may be applied toward the requirements for an undergraduate degree.

Special Opportunities

Students live with a British family for the semester. Ample time is provided for independent travel, and excursions to Stratford-upon-Avon and Brussels are included. Students enjoy library and student union privileges at the University of London.

Minor in Political Science

The minor in Political Science is intended for those who prefer to pursue another major but wish to increase their knowledge of an area of activity that is a part of our lives

at every turn. Through this minor the student has a greater potential to achieve enlightened citizenship.

Requirements

- 53.110 The Individual and the Polity /S 4:1 (3-4)
or
53.120 Introduction to American Politics /S (3-4)
- Three credit hours in political theory at the 200/300 level.
- Fifteen credit hours in other Department of Government courses, including at least nine credit hours at the 300 level and at least three credit hours at the 400/500 level.

B.A./M.A. in Political Science

Admission to the Program

This program enables qualified undergraduates to earn, in a continuous plan of five years of study, both a bachelor's degree with a major in any related discipline and a master's degree with a major in political science. This is accomplished by allowing certain specified graduate-level courses to be applied to the requirements of both degrees.

Admission to the combined B.A./M.A. program requires junior standing, a 3.00 cumulative grade-point average, a completed application form (forms are available from the Department of Government), a written faculty recommendation, an essay on the student's interests and abilities in political science and an interview with the Department of Government chair.

Course Requirements (Senior Year)

- The course requirements for the M.A. in Political Science.

B.A./M.A.:
- 53.650 Political Analysis (3) (applicable to both degrees)
- Three courses specified by the Department of Government as applicable to both degrees.

Recommendations

Recommended preparatory courses for the B.A./M.A. program include courses in economics and statistics.

Note: Acceptance and participation in the B.A./M.A. program does not automatically guarantee acceptance into the graduate program. Students must apply for admission to the graduate program through the Office of Admissions according to its deadlines, but no later than the last undergraduate semester. If a 3.00 cumulative grade-point average is maintained, a student can expect to be admitted to the master's program.

M.A. in Political Science

Admission to the Program

The minimum requirement for admission to the M.A. program is a B average in the last sixty credit hours of undergraduate work and a bachelor's degree from an accredited college or university. All applicants are evaluated on the basis of scholastic achievement in their last sixty credit hours of undergraduate work, two letters of recommendation and an essay on career interest. Applicants who wish to be considered for departmental honor awards must apply for full-time status and also take the Graduate Record Examination.

Fields

American Politics and Comparative Politics.

Degree and Major Requirements

- A total of thirty-three credit hours of approved graduate work.
- A written four-hour comprehensive examination in the major field.

Course Requirements

American Politics

- 53.610 Introduction to Quantitative Methods in Political Science (3)
- 53.611 Political Research (3)
- 53.650 Political Analysis (3)
- Major field includes fifteen credit hours in American Politics. Students should select up to five courses in this area in order to prepare for the comprehensive examination. Courses may be selected from either the 500 or 600 level. Required:

one course in congressional studies, preferably 53.651 Legislative Process (another course on Congress might be substituted after discussion with an adviser).

53.652 The Presidency and the Executive Branch.

one course on public opinion, political behavior, elections, or parties and interest groups.

- Second field includes nine credit hours selected from a variety of areas in political science or from other disciplines.

Comparative Politics

- 53.610 Introduction to Quantitative Methods in Political Science (3)
- 53.611 Political Research (3)
- 53.650 Political Analysis (3)
- One political theory course.
- Major field includes six credit hours from the following:

- 53.630 Comparative Politics of Developed Nations (3)
- 53.631 Comparative Politics of Developing Nations (3)

- Six additional hours drawn from the comparative politics offerings.
- Second field includes three courses (nine credit hours) in a logically related area in political science or from other disciplines in the university.

An internship may be substituted for up to three hours of the second-field courses. If the internship option is selected, students must register for 53.692 Cooperative Education (3).

Ph.D. in Political Science

Admission to the Program

Applicants are considered and admitted only for the fall semester each year. February 1 is the deadline for application for admission. All applicants must submit scores from the verbal and quantitative sections of the Graduate Record Examination. The normal minimum for consideration is a 3.20 grade-point average in all previous academic work. Preference will be given to applicants for full-time study, although highly qualified students may be admitted for part-time study.

Major Fields

American Politics, Policy Analysis, and Public Administration

Degree and Major Requirements

- A total of seventy-two hours of approved graduate work is required for students entering the program with a bachelor's degree; a minimum of fifty-four hours is required of students who have completed an approved master's degree.
- Advancement to candidacy is accomplished by successfully completing a written qualifying examination on the major area at the end of the second semester of study.
- Students take two written comprehensive examinations in two of the three major areas of study and master the subject matter of the third through formal course work. Following completion of the written examinations, all students take an oral examination on their entire program of study before a committee of faculty members.

Students taking the degree in public administration take written comprehensives in public administration and one of the two remaining areas.

Students taking the degree in political science take written comprehensives in either policy analysis or American politics and in any one of the remaining areas.

- The Ph.D. is fundamentally a research degree. Understanding scientific inquiry and correctly using research techniques require extensive preparation. The faculty has designed three courses to help doctoral students comprehend the nature of science and master tools of research. All students in the program take these courses: 53.612, 53.613, and 53.614.

Each student selects a research specialization in which he or she will complete an original project under the direction of program faculty and write a dissertation. Students can choose research projects within one of the three major areas or they can select a research specialization from one of the other graduate fields within the school. Comparative politics is specifically available as a research specialization at the dissertation level.

Each student prepares a research proposal for the dissertation project. As part of this process, each student must publicly defend the research proposal before the dissertation committee and other interested faculty. The committee and the coordinator of the doctoral program (acting for the dean) must approve the defense and the research proposal. The topic covered by the proposal must be related to ongoing research or publications of the supervising faculty.

As work on the dissertation project progresses, each student registers for a total of twelve credit hours of directed study, including the research seminar. Substantive course work may be used as part of this requirement where it contributes directly to the research specialization and is specifically recommended by the dissertation chair.

Upon completion of the research and the written dissertation, the candidate submits his or her manuscript to the advisory committee for review. If the committee members approve the manuscript, the candidate must complete an oral defense of the dissertation and the general field in which it lies before the committee and other interested faculty. The committee determines conclusively at this point whether the dissertation and examination are acceptable.

The dissertation must consist of high quality original research directly relevant to the student's doctoral program. A dissertation proposal may be rejected for the following reasons: the topic does not address a major research issue in political science or public administration, the research design is inadequate, the methodology is inappropriate, or because no full-time faculty member in the School of Public Affairs is academically competent or available to supervise the project. If the candidate fails to present an acceptable dissertation or dissertation proposal within the time limit allowed for completing the doctorate, or does not successfully complete the oral defense, his or her candidacy may be terminated at that time.

Course Requirements

- Four courses in the major field. Four courses in the second major field. Three courses in the third area of

study: 53.710 Seminar in American Politics (3), 53.720 Seminar in Policy Analysis (3), 54.710 Seminar in Public Administration (3).

- Three courses in research design and methodology: 53.612 Conduct of Inquiry I (3), 53.613 Conduct of Inquiry II (3), 53.614 Research in Political and Administrative Behavior (3).
- Twelve credit hours on the dissertation, including the research seminar: 53.799 Doctoral Dissertation Seminar in Political Science.

Justice, Law, and Society

Chair James J. Fyfe

Full-Time Faculty

University Professor R.J. Simon

Professor D. Aaronson, R.R. Bennett, J.J. Fyfe, R. Johnson, I. Robbins, D.J. Saari, L.I. Shelley, A.S. Trebach, E.C. Viano, R.I. Weiner

Associate Professor J.P. Gunning

Assistant Professor P.J. Hanke, J.P. Lynch

Instructor G.W. Hutchison

Research Professor A.D. Biderman

The Department of Justice, Law, and Society has one of the oldest programs in the field of justice in the United States. There are currently twelve full-time faculty in the department with educational backgrounds in law, criminology, criminal justice, political science, sociology, and social work. The department offers two Bachelor of Arts degrees, in Justice and in Law and Society; a Master of Science degree in Justice; a Ph.D. in Sociology; Justice; and a joint Juris Doctor and Master of Science program in Law and Justice.

The B.A. in Justice curriculum provides a thorough foundation in laws, regulations, policies, social conditions, and public institutions (justice systems) that define and resolve problems of justice. It also explores the philosophical, legal, and moral foundations on which justice systems and institutions function. The B.A. in Law and Society cuts across traditional disciplinary boundaries and provides students with a background in law, justice, social sciences, humanities, and public policy. Both undergraduate majors can be considered prelaw majors.

The graduate curriculum focuses on the nature, function, and foundation of law and its relationship to problems that arise from its implementation in justice systems. It provides students with theoretical and methodological knowledge to understand, analyze, formulate, and implement justice programs and policies toward improvement of justice systems and the reduction of crime and other forms of injustice within the United States and worldwide. Students may choose several of the following areas of con-

centration: Administration and Organization of Justice; Law and Society; Court Management; Drugs, Justice, and Public Policy; Law Enforcement; and Corrections; Juvenile and Adult. The program provides sufficient flexibility to allow a student to develop a program that takes into account previous academic background and meets particular interests and professional and academic goals.

The department's programs prepare students for law school and further graduate study, as well as for entry-level positions and professional careers in the justice field. Washington, D.C., provides a constant source of Cooperative Education and Internship placements, which often point the way to challenging employment.

B.A. in Justice

Admission to the Program

New freshman and transfer students are admitted through the Office of Admissions. Current students in good academic standing who wish to transfer into the department or develop a double major may do so through a formal declaration of major.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-eight credit hours with grades of C or better.

Course Requirements

- 73.103 Introduction to Problems of Justice /S (3)
- 73.104 Introduction to Systems of Justice /S (3)
- 73.205 History and Philosophy of Criminology /A, S (3)
- 73.307 Justice and Law /A, S (3)
- 73.308 Justice and Morality /A, S (3)
- 73.380 Introduction to Justice Research (3)
(Prerequisite: 42.202 and junior standing)
- Six credit hours in law enforcement:
 - 73.210 Policing in America: An Introductory Survey /S (3)
 - 73.211 Contemporary Issues in American Law Enforcement (3)

- 73.311 Introduction to Forensic Science (3)
- 73.313 Organized Crime (3)
- 73.315 White-Collar and Commercial Crime (3)
- 73.320 Criminal Procedure (3)
- 73.321 Evidence (3)
- 73.382 Determination of Fact (3)
- 73.411 Problems in Forensic Science (3)

- Six credit hours in corrections:
 - 73.230 Contemporary Corrections in the United States (3)
 - 73.330 Institutional Corrections /S (3)
 - 73.331 Corrections in the Community (3)
 - 73.431 The Prison Community (3)
 - 73.517 Victimology (3)
 - Three credit hours in judicial administration:
 - 73.340 Judicial Administration: Criminal (3)
 - 73.341 Judicial Administration: Civil (3)
 - Three credit hours in law and society:
 - 73.206 Social Justice and Deviant Behavior (3)
 - 73.253 Juvenile Delinquency and Youth Crime (3)
 - 73.351 Individuals, Institutions, and Justice in America (3)
 - 73.352 Psychiatry and the Law /S (3)
 - 73.420 Legal Reasoning (3)
 - 73.450 Prevention of Crime and Delinquency (3)
 - 73.454 Violence in America (3)
 - 73.458 The Juvenile and the Law (3)
 - 73.463 The Free Press and the Administration of Justice (3)
 - 73.500 Moral Issues in Criminal Justice (3)
 - 73.501 The Concept of Justice (3)
 - 73.502 The Concept of Law (3)
 - 73.504 Comparative Criminology and Criminal Justice (3)
 - 73.541 The Police State (3)
 - Twelve additional credit hours from any of the four areas listed above, as well as the area of drugs, justice, and public policy:
 - 73.300 Drugs and Society /S (3)
 - 73.301 Drugs, Consciousness, and Human Fulfillment (3)
 - 73.302 Alcoholism and Society (3)
 - 73.550 Drugs, Crime, and Public Policy (3)
 - 73.551 Comparative Justice Studies (3)
 - 73.552 Drug Abuse and the Law (3)
 - 73.553 Drug Abuse Treatment (3)
- Courses may also include:
- 73.390 Independent Reading Course in Justice (1-6)
 - 73.392 Cooperative Education Field Experience (3-9)
 - 73.490 Independent Study Project in Justice (1-6)
 - 73.491 Internship in a Justice Setting (1-6)
- At least sixty credit hours of course work outside the Department of Justice, Law, and Society including
 - 65.100 American Society /S 4:1 (3)
 - 57.105 Psychology as a Social Science /S 4:1 (3)
 - 42.202 Basic Statistics /N (4)

Students are advised to select some of their elective courses from related areas such as political science, economics, history, anthropology, psychology, sociology, philosophy, literature, computer systems applications, and accounting.

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

B.A. in Law and Society

Admission to the Program

New freshman and transfer students are admitted through the Office of Admissions. Current students in good academic standing who wish to transfer into the department or develop a double major may do so through a formal declaration of major.

This program is designed for students who anticipate further education or careers in law and law-related areas, as well as in the social sciences and the humanities.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of 30 credit hours, consisting of one foundation course and one second-level course from each of five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-eight credit hours with grades of C or better.

Course Requirements

- 19.100 Macroeconomics /S 4:1 (3)
- 19.200 Microeconomics /S 4:2 (3)
- 73.103 Introduction to Problems of Justice /S (3)
- 73.104 Introduction to Systems of Justice /S (3)
- 73.307 Justice and Law /A, S (3)
- 73.380 Introduction to Justice Research (3)
(Prerequisite: 42.202 and junior standing)
- 73.420 Legal Reasoning (3)

- Twenty-seven credit hours chosen in consultation with the program adviser from courses in the following areas: law and the city; law and economics; justice systems; legal systems-normative; comparative legal systems; theoretical foundations of law; and law and public policy. The list of approved courses is available in the Department of Justice, Law, and Society office.

Courses may also include:

- 73.390 Independent Reading Course in Justice (1-6)
- 73.392 Cooperative Education Field Experience (3-9)
- 73.490 Independent Study Project in Justice (1-6)
- 73.491 Internship in a Justice Setting (1-6)

University Honors Program

The department's honors coordinator advises students in the University Honors Program regarding departmental options. Students in the University Honors Program who complete twelve hours of advanced-level honors work in the department will, upon departmental recommendation, graduate with University Honors in the major. See the section on the University Honors Program in this catalog for further details.

Washington Semester Program in Justice

Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Admission to the Program

This special one-semester program draws on the unique environment of Washington, D.C., to provide students with a realistic picture of the processes of the criminal justice system; the interrelationships of the institutions operating in that system; the problems of civil justice systems; and local, national, and international levels of the justice system. This is accomplished through seminars, internships, and independent research projects. The program is open to students of The American University and students of affiliated institutions across the country. Requirements for admission to the program are: (1) a major in justice or a related social science; (2) nomination by two Washington Semester faculty representatives; (3) 2.50 grade-point average on a 4.00 scale; and (4) at least second-semester sophomore standing at the time of participation.

Course Requirements

- 73.490 Independent Study Project in Justice (1-6)
(or a regular American University course)
- 73.491 Internship in a Justice Setting (1-6)
- 73.492 Washington Justice Seminar I: A National and Intergovernmental Perspective (4)
- 73.493 Washington Justice Seminar II: A National and Intergovernmental Perspective (4)

Special Opportunities

Internships, discussions with justice officials at all levels of government, and field trips to justice agencies.

Minor in Justice

Requirements

- 73.103 Introduction to Problems of Justice /S (3)
- 73.104 Introduction to Systems of Justice /S (3)
- Twelve credit hours in justice at the 300 level or above. No more than six credit hours may be taken from any one concentration area (law enforcement; corrections; judicial administration; law and society; and drugs, justice, and public policy)

B.A./M.S. in Justice

Admission to the Program

The program enables students to complete the B.A. and the M.S. in five years. Undergraduate students with majors in justice or related disciplines at The American University apply to this program at the end of the junior year. Admissions decisions are based on the normal M.S. standards and procedures of the school.

Course Requirements

- All requirements for the B.A. degree at The American University with a major in Justice or related discipline.
- All requirements for the M.S. degree with a major in Justice.

Students may apply six credit hours of course work in justice at the 500 level or above to satisfy the requirements for both degrees.

M.S. in Justice

Admission to the Program

A background of relevant undergraduate preparation in the social, behavioral, and administrative or managerial sciences is preferred, but not absolutely required. All applicants are evaluated on the basis of scholastic achievement in their last sixty credit hours of undergraduate work. The Graduate Record Examination verbal and quantitative general tests, a bachelor's degree from an accredited institution, and two letters of recommendation from professors or employers are required.

Tracks

Administration and Organization of Justice; Law and Society; Court Management; Drugs, Justice, and Public Policy; Law Enforcement; and Corrections: Juvenile and Adult.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work.
- One three-hour written comprehensive examination in an area of specialization (see tracks above).
- Two research courses are required in lieu of a thesis. (Prerequisite: a course in basic statistics or proficiency examination equivalent.)

Course Requirements

- 73.600 Proseminar: Issues in Justice (3)
- 73.680 Introduction to Justice Research I (3)
- 73.681 Introduction to Justice Research II (3)

Administration and Organization of Justice

- 73.521 Law and the Mental Health System (3)
- 73.522 Crime and Public Policy (3)
- 73.551 Comparative Justice Studies (3-6)
- 73.606 Nature and Function of the American Legal System (3)
- 73.608 The Constitution and Criminal Procedure (3)

Law and Society

- 73.500 Moral Issues in Criminal Justice (3)
- 73.501 The Concept of Justice (3)
- 73.502 The Concept of Law (3)
- 73.503 Criminal Behavior: A Psychosocial Analysis (3)
- 73.504 Comparative Criminology and Criminal Justice (3)
- 73.541 The Police State (3)
- 73.604 Theoretical Issues in Justice (3)
- 73.609 The Political Basis of the Criminal Justice System (3)

Court Management

- 73.660 Critical Issues in Judicial Administration (3)
- 73.661 Complex Organizational Theory in Court Systems and Legal Organizations (3)
- 73.662 Court Management Practices (3)
- 73.690 Independent Study Project in Justice (1-6)

Drugs, Justice, and Public Policy

- 73.550 Drugs, Crime, and Public Policy (3)
- 73.551 Comparative Justice Studies: Institute on Drugs, Crime, and Justice in England and America (6)
- 73.552 Drug Abuse and the Law (3)
- 73.553 Drug Abuse Treatment (3)

Law Enforcement

- 73.612 White-Collar Crime in Government, Business, and Labor (3)
- 73.640 Theoretical Bases of Law Enforcement (3)
- 73.641 Management and Policy Issues in Law Enforcement (3)

- 73.642 Seminar on Contemporary Literature in Law Enforcement (3)

Corrections: Juvenile and Adult

- 73.517 Victimology (3)
- 73.551 Comparative Justice Studies (6)
- 73.683 Institutional Corrections (3)
- 73.684 Community Corrections (3)
- 73.685 Juvenile Corrections (3)
- 73.687 Management Issues in Corrections (3)

Research Courses

- 73.520 Theories of Planned Change: Society, the Environment, and Justice (3)
- 73.631 Applied Justice Program Evaluation Techniques (3)
- 73.680 Introduction to Justice Research I (3)
- 73.681 Introduction to Justice Research II (3)

Internships and Cooperative Education

- 73.691 Internship in a Justice Setting (1-6)
- 73.692 Cooperative Education Field Experience (3-6)

Students without practical experience are encouraged to participate in a field experience to gain insight into the operation of justice agencies and research activities.

J.D./M.S. in Law and Justice

Admission to the Program

The program enables students to complete the J.D. and M.S. degrees in approximately four years. Students must apply to and be accepted by both the Washington College of Law and the Department of Justice, Law, and Society. Admission to either the M.S. or J.D. program in no way implies that admission to both programs will necessarily be granted.

Students may apply to both programs simultaneously or begin either program separately and then apply to the other program. However, once the study of law has begun, no justice courses can be taken until one full year of full-time law study has been completed.

Admission criteria are the same as those for the master's program in justice. If application is made initially to the Washington College of Law (WCL), LSAT scores are accepted in place of GRE general scores and application materials submitted to the WCL are reviewed for admission to the Department of Justice, Law, and Society.

Requirements

- All requirements for the Juris Doctor in the Washington College of Law.
- All requirements for the Master of Science in Justice in the Department of Justice, Law, and Society.

Students may apply six credit hours of justice courses to the J.D. degree and six credit hours of law courses to the M.S. degree in Justice. The law adviser must approve the justice courses and the justice adviser must approve

the law courses in advance of taking the courses to be applied toward both degrees.

Ph.D. in Sociology: Justice

Admission to the Program

Admission to the program in Sociology with a Specialization in Justice is determined jointly by appointed representatives from the Department of Sociology and the Department of Justice, Law, and Society.

To apply for admission to this program, students must complete twelve or more credit hours of approved graduate-level course work in sociology with a grade-point average of better than 3.00 on a 4.00 scale, supply letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study, and submit GRE (General) scores.

A minimum of seventy-two hours of approved graduate work is required for the Ph.D. in the program. Normally these seventy-two hours consist of sixty hours of course work and twelve hours of directed study on the dissertation.

Four comprehensive examinations are required: sociological theory, methods of social research, a field of concentration approved by the Department of Sociology, and the candidate's approved area of concentration, administered by the Department of Justice, Law, and Society. At least one of the two examinations must be taken orally; however, it is strongly recommended that the justice comprehensive examination be written. The dissertation committee is chaired by a member of the Department of Justice, Law, and Society.

For more information about the Ph.D. in Sociology: Justice, see "Sociology" in this publication.

Public Administration

Chair R.P. Boynton

Full-Time Faculty

Professor R.P. Boynton, R.E. Cleary, C.M. Kerwin, D.H. Kochler, L. Langbein, H. McCurdy, B.H. Ross, B.R. Schiller, M. Segal, R.G. Smolka

Associate Professor H. Lieber, R. Stout, D. Zauderer

Assistant Professor R.G. Higgins, G.B. Lewis, T.N. Tschudy

The Department of Public Administration makes use of the special opportunities available to it from its location in the nation's capital for the teaching and study of public administration.

The graduate programs are designed to prepare students for academic or professional careers in public affairs or policy analysis. The master's and doctoral programs in public administration are flexible in order to meet the educational needs of a diverse student population.

Minor in Public Administration

The minor in Public Administration is designed for students interested in pursuing careers in the public or not-for-profit sector. It allows students to major in the social sciences or humanities while specializing in an academic area that is more career focused. Students interested in this minor are required to take three designated courses plus four electives for a total of twenty-one credit hours.

Requirements

- 53.110 The Individual and the Polity /S 4:1 (3)
or
53.120 Introduction to American Politics /S (3-4)
- 54.260 Administrative Politics /S (3)
- 54.343 Governmental Management (3)
- Twelve additional hours from the following:
54.345 The Law of Public Administration (3)
54.444 Governmental Budgeting (3)
54.445 Leadership in the Public Sector (3)
10.353 Organizational Behavior (3)
53.240 Metropolitan Politics (3)
53.560 Intergovernmental Relations (3)

Courses related to the field of public administration in the 53.xxx series with the approval of the public administration chair.

B.A./M.P.A. in Public Administration

Admission to the Program

This program enables qualified undergraduates to earn, in a continuous plan of five years of study, both a bachelor's degree with a major in any related discipline and a master's degree with a major in public administration. This is accomplished by allowing certain specified graduate-level courses to be applied to the requirements of both degrees.

Admission to the combined B.A./M.P.A. program requires junior standing, a 3.00 cumulative grade-point average, a completed application form (forms are available from the Department of Public Administration), a written faculty recommendation, an essay on the student's interests and abilities in public administration, and an interview with the Department of Public Administration chair.

Course Requirements (Senior Year)

- The course requirements for the M.P.A.

B.A./M.P.A.:

- 54.610 Public Management (3) (applicable to both degrees)
- Three courses specified by the Department of Public Administration as applicable to both degrees.

Recommendations

Recommended preparatory courses for the B.A./M.P.A. program include courses in economics, statistics, computer science, accounting, writing and other communication skills, undergraduate internships, and related work experience.

Note: Acceptance and participation in the B.A./M.P.A. program does not automatically guarantee acceptance into the graduate program. Students must apply for admission to the graduate program through the Office of Admissions in the last undergraduate semester. If a 3.00 cumulative grade-point average is maintained, a student can expect to be admitted to the master's program.

Master of Public Administration (M.P.A.)

Admission to the Program

The minimum requirement for admission to the M.P.A. program is a B average in the last sixty credit hours of undergraduate work and a bachelor's degree from an accredited college or university. Two letters of recommendation and an essay on career interests are required; GRE is desirable but not required. The Graduate Record Examination is required for full-time applicants who wish to be considered for a departmental honors award.

Degree and Major Requirements

- A total of forty-two credit hours of approved graduate work.

Students with the requisite professional experience may be exempted from six credit hours of the total requirement. (See Special Opportunities below.)

- One written comprehensive examination, lasting four and a half hours, must be passed by each student. The examination tests knowledge of the core courses listed below.
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
54.601 Methods of Problem Solving I (3)
54.602 Methods of Problem Solving II (3)
54.610 Public Management (3)
54.612 Politics of Administration (3)
54.630 Public Managerial Economics (3)

Course Requirements

Management core (nine courses):

- 54.601 Methods of Problem Solving I (3)
- 54.602 Methods of Problem Solving II (3)
- 54.610 Public Management (3)
- 54.612 Politics of Administration (3)
- 54.616 Legal Issues in Public Administration (3)
- 54.630 Public Managerial Economics (3)
- 54.633 Public Financial Management (3)
- 54.650 Leadership for Public Management (3)

- **54.665 Public Personnel Administration (3)**

All M.P.A. students are required to attain basic competency in the following areas: public management; methods of problem solving in public administration; information systems and computer applications in management decision making; microeconomics applied to the public sector; policy making, politics, and administration; legal aspects of public administration; leadership, interpersonal relations and the behavioral sciences; public financial management; and personnel administration.

- **Management skill (one course):** Students select at least one course designed to increase practical skills needed by public managers.
- **Area of concentration (three courses):** Students take at least three courses in a single area of concentration or subfield within it. The three courses must complement one another and lead to an advanced level of study. Any remaining courses necessary to complete the M.P.A. program are selected from advanced offerings in supporting fields. Areas: policy analysis; urban affairs; public financial management; international administration; arts management; management information systems; human resources and organization development; court management; and procurement and grants management.
- **Internship:** Preservice students about to begin their career participate in a supervised internship. An internship seminar, equal in credit to one course, relates on-the-job experience to current political and administrative issues. The formal internship program is optional for students already employed.

Special Opportunities

A student who has performed successfully for several years as a manager in a supervisory role before admission to the M.P.A. program may apply to the chair of Public Administration to have the total program reduced by up to six credit hours. Such application must make reference to a number of areas in which the student has acquired basic competency. Credit earned as part of an internship program would not count toward the total course requirement for students availing themselves of this provision. Students seeking to use both the significant managerial experience clause and the transfer credit allowance are limited to a total of nine credit hours.

The Key Executive Program is a twenty-month course of study that offers participants the perspectives and competencies necessary for effective performance in high-level executive and managerial work. The curriculum includes the major activity areas used in certifying candidates for career positions in the Senior Executive Service.

The program includes a year-long research practicum. Under the guidance of individual faculty advisers, participants apply the principles taught in the program to administrative or policy issues and problems within their own agencies.

Classes are held on Fridays and Saturdays. Participants continue to work at their jobs while completing their stud-

ies. Upon completion of this thirty-six-semester-hour graduate program, participants are awarded the Master of Public Administration degree.

The program is oriented to civilian personnel in the federal government, military or other uniformed personnel, and state and local officials.

Admission to the Key Executive Program is competitive and restricted to persons who exercise significant responsibilities for program management or policy development and are preparing themselves for positions of greater responsibility. Classes consist of GS14s or above (or the equivalent). A bachelor's degree is required. Deadline for application for 1989-1990 is July 5, 1989.

Ph.D. in Public Administration

Admission to the Program

Applicants are considered and admitted only for the fall semester each year. February 1 is the deadline for application for admission. All applicants must submit scores from the verbal and quantitative sections of the Graduate Record Examination. The normal minimum for consideration is a 3.20 grade-point average in all previous academic work. Preference will be given to applicants for full-time study, although highly qualified students may be admitted for part-time study.

Major Fields

American Politics, Policy Analysis, and Public Administration

Degree and Major Requirements

- A total of seventy-two hours of approved graduate work is required for students entering the program with a bachelor's degree; a minimum of fifty-four hours is required of students who have completed an approved master's degree.
- Advancement to candidacy is accomplished by successfully completing a written qualifying examination on the major area at the end of the second semester of study.
- Students take two written comprehensive examinations in two of the three major areas of study and master the subject matter of the third through formal course work. Following completion of the written examinations, all students take an oral examination on their entire program of study before a committee of faculty members.

Students taking the degree in public administration take written comprehensives in public administration and one of the two remaining areas.

Students taking the degree in political science take written comprehensives in either policy analysis or American politics and in any one of the remaining areas.

- The Ph.D. is fundamentally a research degree. Understanding scientific inquiry and correctly using

research techniques require extensive preparation. The faculty has designed three courses to help doctoral students comprehend the nature of science and master tools of research. All students in the program take these courses: 53.612, 53.613, and 53.614.

- Each student selects a research specialization in which he or she will complete an original project under the direction of program faculty and write a dissertation. Students can choose research projects within one of the three major areas or they can select a research specialization from one of the other graduate fields within the college. Comparative politics is specifically available as a research specialization at the dissertation level.

Each student prepares a research proposal for the dissertation project. As part of this process, each student must publicly defend the research proposal before the dissertation committee and other interested faculty. The committee and the coordinator of the doctoral program (acting for the dean) must approve the defense and the research proposal. The topic covered by the proposal must be related to ongoing research or publications of the supervising faculty.

As work on the dissertation project progresses, each student registers for a total of twelve credit hours of directed study, including the research seminar. Substantive course work may be used as part of this requirement where it contributes directly to the research specialization and is specifically recommended by the dissertation chair.

Upon completion of the research and the written dissertation, the candidate submits his or her manuscript to the advisory committee for review. If the committee members approve the manuscript, the candidate must complete an oral defense of the dissertation and the general field in which it lies before the committee and other interested faculty. The committee determines conclusively at this point whether the dissertation and examination are acceptable.

The dissertation must consist of high quality original research directly relevant to the student's doctoral program. A dissertation proposal may be rejected for the following reasons: the topic does not address a major research issue in political science or public administration, the research design is inadequate, the methodology is inappropriate, or because no full-time faculty member is academically competent or available to supervise the project. If the candidate fails to present an acceptable dissertation or dissertation proposal within the time limit allowed for completing the doctorate, or does not successfully complete the oral defense, his or her candidacy may be terminated at that time.

Course Requirements

- Four courses in the major field. Four courses in the second major field. Three courses in the third area of study: 53.710 Seminar in American Politics (3), 53.720

Seminar in Policy Analysis (3), 54.710 Seminar in Public Administration (3).

- Three courses in research design and methodology: 53.612 Conduct of Inquiry I (3), 53.613 Conduct of Inquiry II (3), 53.614 Research in Political and Administrative Behavior (3).
- Twelve credit hours on the dissertation, including the research seminar: 54.799 Doctoral Dissertation Seminar in Public Administration.

Special Master's Degree Programs

In conjunction with the M.P.A. program outlined above, the Department of Public Administration offers or participates in a number of special master's degree programs for persons who have already begun their careers. Each program is tailored to the needs of a specific organization or the specific students participating in it, although the degree requirements are based on the M.P.A. requirements outlined above. Participants in these special programs are generally nominated or sponsored by the organizations they work for.

The special degree programs currently available include:

The Key Executive Program, designed to meet the executive development needs of senior government managers. Begun in 1975, it is designed for GS-14s and above (or equivalent) who have significant responsibilities for program management or policy development and are preparing themselves for positions of greater responsibility. They spend twenty months studying the skills, knowledge, and values needed by top-level public executives.

The Center for Public Financial Management helps officials to broaden both their financial and public management skills. It focuses on the needs of government employees at all levels—federal, state, and local—and employees in the not-for-profit sector.

The Human Resource Development Program administered jointly by the Department of Public Administration and the NTL Institute for Applied Behavioral Science and designed for persons who want to improve their skill in the field of human resource development.

The Department of Public Administration also offers many institutes and seminars on special topics to managers in organizations.

Master of Science in Human Resources (M.S.H.R.)

The M.S. in Human Resources is a specialized course of study designed to educate students for specific professional roles in the human resource development field. The courses are usually offered on weekends. Courses are tailored to provide advanced theory and technology in human resource development.

Admission to the Program

A bachelor's degree in any area, with a cumulative grade-point average of at least 3.0 (out of 4.0) in the last sixty hours of course work. Exceptions may be made for highly qualified applicants with many years of service and a record of exceptional accomplishment. Such candidates are admitted provisionally, and after completing four courses with a grade-point average of 3.0 (out of 4.0) or better, may be advanced to full standing.

At present, admission is limited to applicants who possess two years of relevant professional experience in human resource development or related fields.

Majors

The Master of Science in Human Resources is taken with a major in Human Resource Development (HRD). The Human Resource Development major is designed for individuals pursuing careers in training, organizational development, and organizational research and consultation.

Degree and Major Requirements

- A total of thirty-six credit hours of approved graduate work.
- The research requirement is satisfied by completing two of the following courses with grades of B or better:
 - 54.641 Methods of Problem Solving for Human Resource Development
 - 54.642 Organization Dynamics of Human Resource Development
 - 54.646 Consultation Skills for Human Resource Development
 - 54.677 Introduction to Organization Development for Human Resource Development
- A written comprehensive examination covering material in the major field of study.
- Research requirement:

Human Resource Development: Two research courses, 54.641 Methods of Problem Solving for Human Resources Development (3) and 54.674 Practicum Research Project (3). The research must focus on an organizational problem in Human Resource Development, and use techniques (qualitative or quantitative) in organizational diagnosis, intervention and change, and evaluation. Students work under the guidance of a practicum adviser.

- As a prerequisite to a major in Human Resource Development, students must take a Human Interaction Laboratory or Institute on Group and Personal Interaction.

Course Requirements

Core Courses

- 54.640 Leadership for Human Resource Development (3)
- 54.641 Methods of Problem Solving for Human Resource Development (3)

- 54.642 Organization Dynamics for Human Resource Development (3)
- 54.643 Financial Management for Human Resource Development (3)

Human Resource Development

- 54.646 Consultation Skills for Human Resource Development (3)
- 54.648 Training Design and Facilitation for Human Resource Development (3)
- 54.649 Topics in Human Resource Development (3) (special sections)
The special sections of 54.649 are chosen from advanced offerings in Public Administration and Human Resource Development fields as specified each semester by the department: Building Effective Work Teams for Human Resource Development; Conflict Resolution for Human Resource Development; Skill Module for Human Resource Development; and International Human Resource Development. Other university and consortium courses taken as electives must be approved by the chair, Department of Public Administration.
- 54.674 Practicum Research Project (3)
- 54.677 Introduction to Organizational Development for Human Resource Development (3)
- 54.678 Legal Issues in Public Administration for Human Resource Development (3)

- Elective courses selected from the following:
 - 54.675 Organizational Planning and Control for Human Resource Development (3)
 - 54.676 Politics of Administration for Human Resource Development (3)
 - 54.679 Studies in Human Resource Development (3) (special sections)
The special sections of 54.679 are to be chosen from advanced offerings in the Public Administration and Human Resource Development fields as specified each semester by the department: Organization Diagnosis and Intervention for Human Resource Development. Other university and consortium courses taken as electives must be approved by the chair, Department of Public Administration.

Center for Public Financial Management

Director Thomas J. O'Connor

The Master of Public Financial Management program is designed for government employees who aspire to positions which require a more extensive knowledge of public financial management. Sponsored by the School of Public Affairs and with the assistance of the Kogod College of Business Administration, this program addresses the

needs of government employees at all levels—federal, state, and local—and employees in the not-for-profit sector. It provides students with an enhanced capability to deal with the complex problems of today's government and increased technical capability in problem solving, and exposure to the latest methods for better program evaluation and improved financial control.

By emphasizing the practical applications of concepts and principles in core courses, the program helps students develop the ability to deal with complex problems. Each core course is tailored or newly designed to be responsive to the needs and objectives of the governmental organizations represented by the students in each class. The course, *Projects in Managerial Problem Solving*, provides a laboratory for students to identify, analyze, and help resolve the practical problems of their organizations.

Students are usually full-time employees who attend classes at night for six consecutive semesters including two summers. Arrangements can be made, however, for students to attend classes full-time during the day. The resources of the School of Public Affairs and of the Kogod College of Business Administration are used in curriculum design and staffing. In addition to teaching courses, the faculty serve as advisers on the managerial problem-solving projects.

Master of Public Financial Management (M.P.F.M.)

Admission to the Program

The minimum requirement for admission to the M.P.F.M. program is a bachelor's degree and a B average (3.0) in the last sixty credit hours of undergraduate work. Prior graduate course work and professional work experience are also considered in admission. Students who have less than the minimum requirements for admission may be admitted on a provisional basis pending full graduate status upon the successful completion of twelve credit hours of graduate-level course work with a minimum of a B (3.0) or better average.

Degree and Major Requirements

- A total of forty-two credit hours of approved graduate course work.
- Projects: Each student presents an oral and written report on the work completed in connection with the *Projects in Managerial Problem Solving*. The student will be expected to know the conceptual basis of the problem and to demonstrate a capacity to apply knowledge and to perform management functions effectively.

Course Requirements

- 28.604 Public Management (3)
- 28.606 Managerial Macroeconomics (3)
- 28.608 Accounting and Budgeting for Public Managers (3)
- 28.610 Public Finance (3)
- 28.612 Managerial Microeconomics (3)
- 28.614 Human Behavior and Leadership for Public Managers (3)
- 28.616 Quantitative Methods I (Probability and Statistics) (3)
- 28.617 Quantitative Methods II (Scientific Decision-Making) (3)
- 28.620 Public Program Evaluation (3)
- 28.621 Research Methods (3)
- 28.622 Project in Managerial Problem Solving (3)
- 28.623 Computer Applications for Public Managers (3)
- Two option courses are selected by students and their sponsoring organizations in such fields as governmental budgeting, auditing, accounting, procurement and government contracting, personnel management, political dynamics, management information systems, and management science. Other fields of concentration are also available.

Special Opportunities

With advance notice, the Center for Public Financial Management will develop and offer specialized courses for one or a group of federal agencies or local governments.

All core courses and the *Projects in Managerial Problem Solving* emphasize applications and are developed by the faculty member in advance to be responsive to the needs, problems, and objectives of the students and their employer organizations.

Note Also: See the School of Public Affairs and Kogod College of Business Administration sections in this publication for courses that may be taken for credit toward the Master of Public Financial Management.

Certificates

Graduate Certificate in Public Financial Management

This certificate program is designed for government employees interested in expanding their knowledge and practical skills in public financial management. The main objective of the program is to provide the student with a working knowledge of basic financial management techniques which are relevant to public sector financial operations.

The specialized courses in this certificate program are updated and redesigned each semester to comply with the particular needs established by agency participants. Before each semester begins, course instructors conduct a review of the agency's programs and financial operations to determine the most appropriate application of course subject matter to the agency's needs and objectives.

The program can be completed in ten months. Students who successfully complete the certificate program may

apply these courses toward the Master's degree program in Public Financial Management if they choose.

Admission to the Program

Admission is open to students with a bachelor's degree. Professional experience is also considered in admission. Students who wish to apply course work in the certificate programs as advance standing in the Master of Public Financial Management Program must have attained at least a B (3.0) in each course completed.

Course Requirements

- 28.604 Public Management (3)
- 28.608 Accounting and Budgeting for Public Managers (3)
- 28.610 Public Finance (3)
- 28.624 Procurement and Federal Assistance (3)
- 28.616 Quantitative Methods I (Probability and Statistics) (3)

With approval of the Center for Financial Management, course substitutions may be made in this certificate program.

Graduate Certificate in Governmental Management

Admission to the Program

Open to students with a bachelor's degree.

Course requirements

- 54.601 Methods of Problem Solving I (3)
- 54.610 Public Management (3)
- 54.616 Legal Issues in Public Administration (3)
- 54.633 Public Financial Management (3)
- 54.650 Leadership for Public Management (3)

Graduate Certificate in Public Management

Admission to the Program

Open to students with a bachelor's degree.

Course Requirements

- 54.601 Methods of Problem Solving I (3)
- 54.610 Public Management (3)
- 54.612 Politics of Administration (3)
- Two of the following:
 - 54.630 Public Managerial Economics (3)
 - 54.632 Governmental Budgeting (3)
 - 54.650 Leadership for Public Management (3)
 - 54.652 Building Effective Work Teams (3)
 - 54.665 Public Personnel Administration (3)



Interdisciplinary Studies

Deans, College of Arts and Sciences, Kogod College of Business Administration, School of International Service, and the School of Public Affairs.

Academic Counselors/Coordinators
(Available in Deans' Offices)

Academic counselors and a faculty coordinator in each dean's office counsel students in the formation of undergraduate and graduate, formal and informal interdisciplinary majors. Up-to-date information on all interdisciplinary activities can be obtained from the appropriate undergraduate or graduate dean's office.

B.A. or B.S. in Interdisciplinary Studies

This program is designed for students who wish to construct their own major programs of study in accordance with their needs, capabilities, and interests. The initiative in formulating an interdisciplinary major is left to the student. The student has the responsibility to determine the central concept around which the program is constructed and to formulate in writing a list of all courses—major, related, and tool—which are to serve as requirements for the program.

The student must secure the advice and approval of three faculty members: one major adviser, who must be a full-time faculty member, and two sponsors. The three faculty members should represent the various disciplines involved in the interdisciplinary field. The major faculty adviser will advise the student for the rest of the student's undergraduate career. The two sponsors will assist the major adviser in areas outside his or her field.

Admission to the Program

As a rule, final written application to the program and interviews should be made no later than the first semester of the junior year and no earlier than the second semester of the freshman year. Students must have at least a 2.50 grade-point average to be accepted. A student applies for

permission to undertake an interdisciplinary major to the dean of the school or college in which he or she is enrolled. If the focus of the interdisciplinary program requires a change of college or school, the student must affiliate with the appropriate division.

An outline of the student's program submitted for approval must include:

1. A statement of the central concept of the major and an explanation of its interdisciplinary character.
2. A statement demonstrating that existing programs do not satisfy the educational needs or vocational goals of the student.
3. An outline of the academic requirements of the major, including a list of all required courses and a tentative schedule for their completion. Independent study courses must be outlined if included in the proposal.
4. A Declaration of Major form, which must specify the name of the major and whether a B.A. or a B.S. degree is to be awarded.

Majors

Individually designed majors focused on an interdisciplinary theme.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of the five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of forty-two credit hours with grades of C or better including six credit hours of independent study or senior seminars and thirty-six hours selected to form an academically sound, unified, and well-defined program.

The area of concentration may not be the focus of any current degree program offered by The American University, and the central concept must be interdisciplinary. A random collection of courses taken from several departments does not constitute an acceptable interdisciplinary program. Each program should be designed to give the student the fundamental skills and background knowledge relevant to the specific interdisciplinary area. Courses which a student has already taken at The American University, or which the university has accepted in transfer, may be counted as part of the interdisciplinary major requirements when they are clearly within the proposed interdisciplinary field.

- Six credit hours in two independent study courses or senior seminars under the direction of the major adviser constructed to unite the various aspects of the interdisciplinary program. With the adviser's approval, the student may substitute an internship course under the adviser's direction, a 500-level seminar, or cooperative education experience for one of the two special courses.
- Twenty-seven of the remaining thirty-six credit hours must be upper level (as defined by the teaching units that offer them), and it is usually advisable to include at least two 500-level courses, although in certain cases this may not be possible.

A maximum of eighteen credit hours of work completed prior to the semester in which application is made may be included in the program.

See Also: B.A. in Communication, Legal Institutions, Economics, and Government; and B.A. in Law and Society (School of Public Affairs).

Minor in Interdisciplinary Studies

Individually designed minors focused on an interdisciplinary theme.

Admission to the Program

Admission to an interdisciplinary minor is governed by the same considerations as stated above for interdisciplinary majors except that approval is required by two rather than three faculty members. The academic coordinator for interdisciplinary studies is available to assist students in formulating interdisciplinary minor programs.

Requirements

- A total of twenty-four credit hours of course work selected to form an academically sound, unified, and well-defined program. The area of concentration may not be the focus of any current degree program offered by The American University, and the central concept must be interdisciplinary.
- Twelve of the twenty-four credit hours must be taken at the 300 or 400 level.

In addition to the twenty-four credit hours of course work, the student may unify the minor by taking three credit hours of independent study or research, senior seminars, or cooperative education experience focused on the central concept of the minor.

No more than six credit hours of courses used to satisfy the distributive requirement may be used to satisfy the requirements of the interdisciplinary minor. Courses used to satisfy the university English requirement may not be used to satisfy the requirements of the interdisciplinary minor.

See Also: Minor in Russian Studies (Language and Foreign Studies).

M.A. or M.S. in Interdisciplinary Studies

Admission to the Program

Graduate students interested in constructing an interdisciplinary master's program must first be admitted to a school or college or teaching unit of the university. In applying for admission, prospective graduate students may inform the faculty and teaching units of their interdisciplinary goals. In this manner the student unofficially explores the possibilities of obtaining faculty support for the desired interdisciplinary program.

Graduate students interested in this program should complete a major program form available in the office of the dean of the school or college. This completed form, along with a written statement of the concept of the program, and the letter of admission to a school or department of the university will serve as the admission packet for entrance to the program. Once this packet receives the approval of the dean of the school or college to which the student has been admitted, it will serve as the official record of the student's interdisciplinary master's program.

All programs must have the approval of three faculty members, at least one from each of the two or more disciplines involved in the interdisciplinary field. The responsibility for securing the advice and signature of the three faculty members is left with the student in consultation with the office of the dean. The student should select one of the faculty advisers, who must be from the admitting unit as the primary adviser.

Majors

Individually designed majors focused on an interdisciplinary theme.

Degree and Major Requirements

- A total of thirty credit hours of graduate work for the master's degree, including six credit hours of research credit either in writing a thesis or in completing special research seminars.

At least twenty-four of the thirty credit hours, including the thesis or research sequence, must be completed in residence.

The individually designed interdisciplinary master's program allow graduate students to design their own M.A. or M.S. programs built around a central theme that cuts across various disciplines. Every program must form an academically sound area of concentration defined by a central concept. The area of study must not duplicate the program of any master's degree offered by the university. The central concept must be explained in a written statement attached to the application for approval of the master's program.

- One comprehensive examination.

The subject and scope of the examination is determined by the student and advisers at the time of initial approval of the interdisciplinary field. A statement de-

tailing the provisions for the examination (who will draw it up, areas covered, and who will evaluate it) must be submitted with the application to the office of the dean of the college. Unless otherwise indicated, the faculty who approve the program take responsibility for drawing up, administering, and evaluating the comprehensive examination.

- Thesis option: six credit hours of thesis research.

Nonthesis option: two research seminars for six credit hours at the 500 level or above with a grade of B or better. These research-oriented courses should serve to unify the elements of the program.

Students must specify which option has been chosen and indicate which courses will be taken (for the non-thesis option), or the subject of the thesis and members of the thesis committee (for the thesis option).

See Also: M.S. in Interdisciplinary Studies: Environmental Toxicology (Department of Biology).



Adult students receive academic counseling.

Continuing Studies

Education and training for adults at The American University is a continuous, integrated effort which speaks to the needs of members of the local, national, and international communities.

The American University serves the educational needs of adults through full- or part-time study by helping them determine realistic personal and professional educational goals, enrich their knowledge, and improve their technical and professional qualifications. To this end, the university designs and implements academically stimulating programs for lifelong education and learning through evening, off-campus, and contract educational programs; and through certificate programs and noncredit seminars. Through nondegree status it is possible for adults to earn undergraduate and graduate credit without formal admission to degree status.

Return-to-School Programs

The American University has a long-standing commitment to serve the educational needs of adults. The university's Return-to-School Programs are designed for adults who wish to begin or to resume work towards a bachelor's degree, for adults who may earn credits for life experience, and for those who wish to pursue noncredit professional development opportunities. Evening orientations are held at least once a month both on campus and at several off-campus locations. For an orientation schedule, call the Office of Continuing Studies, (202) 885-3900.

Credit for Life Experience

The Assessment of Prior Experiential Learning (APEL) program enables adults to earn undergraduate academic credit for life experience gained through work, volunteer activities, military service, travel, and community service. The APEL program assists adults in translating their years

of experience into college credit. Students describe, analyze, and document their learning experiences. The resulting portfolio is assessed by university faculty members who award academic credit based on the depth and quality of the presented work. Students can earn from six to thirty credit hours of elective credit through this program (up to the equivalent of one year of full-time study). The APEL program is designed for adults who have been out of high school for at least five years and who have earned no more than twelve credit hours of college credit each year during the past five years.

The APEL curriculum consists of two sequential courses. 23.205 Issues, Ideas, and Words is a literature course focused on critical reading, effective writing, and analytical thinking. This course provides adults an important introduction to the skills necessary for success in the preparation of their portfolio and subsequent university course work. During the second course, 77.240 Documentation and Analysis of Field Experience, students identify, document, and analyze their experiences and produce the portfolio which is assessed by a faculty member.

For further information about the APEL program call (202) 885-3970 or write to the Assistant Director, Return-to-School Programs, Office of Continuing Studies, Nebraska Hall, The American University, Washington, DC 20016.

Community Studies

The faculty of Community Studies of the School of Education offers a thirty-semester-hour undergraduate Certificate in Community Studies. Students may continue on to fulfill the requirements for Associate of Arts or bachelor's degree or both. The program draws together the resources of an urban university and the community, emphasizing traditional academic disciplines. All courses are fully accredited, transferable, and open to all university students.

The curriculum is designed to meet the educational needs of adults who seek professional or personal advancement through full- or part-time study, credit or noncredit. Academic and diagnostic counseling services are available

to assist students in planning their academic programs. An orientation and study-skills workshop is available. The required curriculum meets the needs of students who have been out of school for a number of years.

Community Studies provides tuition aid for students enrolled in the Community Studies program who meet the following criteria: clearly defined financial need, high-school graduation or the equivalent, and at least one year's residency in the Washington, D.C., metropolitan area.

Latino Institute

The Latino Institute actively seeks qualified members of the metropolitan Hispanic community for admission to Community Studies. Tuition aid is available.

Certificate in Community Studies

The Certificate in Community Studies includes four Community Studies courses (12 credit hours), the balance of the thirty credit hours to be completed from the general university offerings. Some required courses may be waived by examination or permission of adviser.

Admission to the Program

Students must be approved by the department for formal admission to the program. Criteria used to determine admission and placement include the completed application form, standardized tests, an essay, and a personal interview.

University Requirements

- A total of thirty credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of fifteen credit hours, to include a foundation course from each of the five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Course Requirements

- 71.101 Communications I (3)
- 71.102 Communications II (3)
- 71.104 Critical Reading and Thinking (3)
- 71.108 Introduction to the Social Sciences (3)
- 41.150 Finite Mathematics (3) to fulfill the College Mathematics requirement.

A.A. in General Studies

This program is designed to serve the educational needs of high-school graduates who seek professional or personal advancement through either full- or part-time study.

Admission to the Program

Any student admitted to degree status at The American University is eligible for admission to this program.

University Requirements

- A total of sixty credit hours with grades of C or better.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of twenty-four credit hours to include one foundation course in each of the five curricular areas and one second-level course in three of the five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Bachelor of General Studies (B.G.S.)

Designed to serve the educational needs of adults, the Bachelor of General Studies program allows students to construct a major with course work from two fields of study. Students enrolling in the program typically have transferrable college credit or have gained life experience credit through The American University's experiential learning program (APEL). (See Credit for Life Experience above.)

Admission to the Program

Any student admitted to degree status at The American University is eligible for admission to this program. Each field of study must be approved by the appropriate academic unit. The signature of the associate dean for undergraduate affairs of the College of Arts and Sciences is required for approval of the final program of study. Persons interested in the program should seek advice from the University Programs Advisement Center.

University Requirements

- A total of 120 credit hours.
- Six credit hours of College Writing.
- Three credit hours of College Mathematics or the equivalent by examination.

General Education Requirements

- A total of thirty credit hours, consisting of one foundation course and one second-level course from each of the five curricular areas.
- No more than six credit hours may be taken in the same discipline.

Major Requirements

- A total of thirty-six credit hours with grades of C or better.
- Two declared fields of study, each consisting of at least eighteen credit hours from a single teaching unit of the university and including at least nine credit hours in each field at the 300 level or above. Specific courses for each area of concentration are selected in consultation with an academic or faculty adviser.

Special Opportunities

Students in this program may exercise the Mobility Clause option. This option allows the student who moves to a location more than seventy-five miles from the university campus the opportunity to complete the degree program at an approved institution and still receive an American University degree. The mobility clause requires that at least forty-five credit hours must be completed at The American University, eighteen of which must be in courses at the 300 level or above with at least nine credit hours at the upper level in the primary area of concentration and nine credit hours at the upper level in the secondary area of concentration. A retention fee must be paid to The American University for each semester during which the student pursues the program at another institution or is inactive. Call the University Programs Advisement Center at (202) 885-2500 for further information.

The American Association of State Colleges and Universities, acting on behalf of the American Council on Education and Department of Defense, has designated The American University as a Serviceman's Opportunity College (SOC).

Certificate Programs

A certificate awarded by The American University at any level is an emblem of professional achievement widely recognized by corporate and government employers. Certificate programs consist of a prescribed sequence of credit courses concentrating in particular career fields. Most certificate programs consist of the core courses required for related degree programs. A maximum of eighteen hours of academic credit earned may be applied later towards a degree. A student's acceptance into a nondegree certificate program, however, does not in any way assure later acceptance into a degree program. Certificates are offered by the Office of Continuing Studies in cooperation with the colleges and schools of The American University.

To be eligible for enrollment in an undergraduate certificate program, students must have completed high school or the equivalent. Eligibility for a graduate certi-

cate requires completion of a bachelor's or advanced degree. A student with a master's degree may enter a certificate program at the advanced graduate level.

The following certificates are available for students enrolled in nondegree status.

Business Certificates

Graduate Certificate in Procurement Management

For detailed information about business certificate programs consult the Kogod College of Business Administration in the Battelle-Tompkins building, phone 885-1900.

Computer Science and Information Systems

Graduate Certificate in Information Systems

For detailed information about these certificates see the Computer Science and Information Systems section of this publication.

Economics

Graduate Certificate in Applied Economics

For detailed information about the economics certificate program see the Department of Economics section of this publication.

Language and Foreign Studies

Undergraduate Certificate Programs in Translation in French, German, Russian, and Spanish
Graduate Certificate Programs in Teaching English to Speakers of Other Languages

For detailed information about language certificates see the Department of Language and Foreign Studies section of this publication.

Technical Writing

Undergraduate Certificate in Technical Writing
Graduate Certificate in Technical Writing

For detailed information about the certificates in technical writing see the Literature section of this publication.

Performing Arts

Graduate Certificate in Arts Management

For detailed information about the arts management certificate see the Department of Performing Arts section of this publication.

School of Public Affairs

Graduate Certificate in Governmental Management
Graduate Certificate in Public Financial Management
Graduate Certificate in Public Management

For detailed information about public administration and campaign management certificate programs see the Government and Public Administration sections of this publication.

Statistics

Undergraduate Certificate in Applied Statistics
Graduate Certificate in Applied Statistics

For detailed information about statistics certificate programs see the Department of Mathematics and Statistics section of this publication.

Professional Development

Graduate certificate programs can be designed to meet specific career or professional development needs. In conjunction with academic and faculty advisers, students develop a proposed sequence of courses which must be approved by the appropriate school or department. For information on these certificate programs, contact an academic adviser in the University Programs Advisement Center (202) 885-2500.

Professional Development

The Center for Professional Development offers credit and noncredit programs designed to meet the career and professional needs of adults. The Human Resource Development master's program as well as other special certificate programs, institutes, and seminars are offered through the center.

Off-Campus Offerings

At the Workplace

Corporations, government agencies, and associations can take advantage of American University programs offered at the workplace. Options include certificate and degree programs or professional development workshops. The curriculum may be tailored to meet training needs. Scheduling is flexible for the convenience of employees, and contract programs are particularly cost-effective for companies which provide tuition reimbursement. For more information call the Office of Contract Programs at (202) 885-3990.

In the Community

The university offers certificate and degree programs and courses throughout the Washington, Maryland, and Virginia areas. Programs are designed to meet the educational and personal needs of students who wish to attend the university at a location near their homes or places of employment. Programs and courses are also designed for organizations that want to encourage the educational or professional development of their employees.

Noncredit Programs

Certificates and Seminars

The American University's noncredit programs are designed for professionals who are interested in expanding their knowledge or skills through noncredit certificates and seminars. Certificate programs offer a comprehensive and varied curriculum relevant to professional work in child care, volunteer management, and cross-cultural relations. Other programs—in computers, communications, cross-cultural communications, and foreign languages—offer students the opportunity to improve skills to increase effectiveness and expand career options. For more information about the noncredit certificates and seminars, call the Office of Continuing Studies at (202) 885-3900.

Institute for Learning in Retirement

The American University has become nationally recognized for its leadership in providing continuing learning opportunities for older adults through its affiliation with the Institute for Learning in Retirement (ILR). In 1982 the ILR was established as a membership organization for persons in the metropolitan Washington, D.C., area who want to remain intellectually active in their later years. The program has grown rapidly to its present size of 400 members.

The ILR offers a unique opportunity for persons who are over the age of 50, retired or semiretired, who wish to continue their learning at the university level. Members of the Institute are men and women with varied career backgrounds. They elect a governing council and, through committees, design their own curriculum of noncredit courses and plan a variety of special activities, including lectures, tours, and special interest groups.

The curriculum consists of two ten-week terms, fall and spring, offering about fifty study groups each term. Study groups meet for two hours once a week and cover a wide range of subjects, from foreign languages, history, and current events to music, art, and philosophy. Study group leaders are members of the ILR or volunteers with special expertise. Winter and summer intersessions provide additional opportunities for learning.

An annual membership fee entitles members to register in study groups without additional cost (except in certain special cases) and to participate in all other ILR activities. It also provides university privileges, including parking at a special rate, access to the library and dining hall, and attendance at lectures and cultural events for free or at reduced rates. Information about membership is available by calling the Institute for Learning in Retirement at (202) 885-3920.

Special University Programs

Cooperative Education Program

In order to integrate the academic curriculum with professional training, the Career Center's Cooperative Education Program enables students to earn elective credit for field experience related to their education and career goals. Participants may include one or more periods of work experience in their programs of study. Co-op placements are usually paid positions and can be full or part time. Positions are with businesses; local, state, or federal governments; or community and social-service organizations.

Full-time faculty from nearly all university departments serve as faculty supervisors for the cooperative education program. Faculty guide and evaluate the co-op students' experiential learning process.

Cooperative education allows students to test skills and academic learning in the world of work; it also provides for entirely new learning opportunities. Co-op experiences enable students to explore career options, make career decisions, and prepare for entry into the professional job market. Personal development, acquisition of independent learning skills, and a balanced education are significant benefits to students participating in cooperative education.

Admission

The program is open to all matriculating undergraduate and graduate students. Applicants must be in good academic standing and must obtain approval from appropriate academic advisers. Students must complete a full year as freshmen or a full semester as transfer or graduate students before they are eligible for placement. However, they may apply to the program at any time. Additional specific admission criteria may be stipulated by schools or departments.

Students must attend an orientation session, complete application forms, and obtain approval signatures before the program's deadlines: April 30 for the summer semester, July 31 for the fall semester, and November 30 for the spring semester. Working with a co-op coordinator, quali-

fied candidates are referred to suitable employers for interviews. Students register in the program once they are selected for a position.

Application to the program does not imply a guarantee of placement, nor does it obligate students to accept offers of employment. However, once hired under the auspices of the program, a student must complete all employment and academic obligations agreed to at the time of registration, unless a specific written release is obtained from the director of cooperative education on the recommendation of the faculty supervisor.

Degree Credit

Credit earned in the Cooperative Education Program may be applied as general elective credit to bachelor's and master's degree programs. Undergraduate students may earn up to eighteen credit hours in the program. Undergraduate students who wish to earn more than six hours of credit for a single assignment must petition for approval from the appropriate faculty member. Graduate students must be placed in jobs specifically related to their major fields and may earn up to six credit hours in the program, subject to the approval of their academic advisers.

All jobs are reviewed and approved for credit by faculty supervisors. The credit value depends on the duration of the work periods. Students are required to demonstrate what they have learned by means of written journals, papers, reports, portfolios, conferences, or seminars. Specific requirements are set by faculty supervisors and are tailored to each individual's experiences.

Students working full time under the program are considered full-time students by the university, and they may take only two additional courses during the work term.

Enrollment

Students enroll in xx.392 Cooperative Education Field Experience (3-9) or xx.692 Cooperative Education Field Experience (3-6) during work placement periods.

Full-time placements may be for six-month periods (July through December or January through June) or for four-month periods (September through December, January through April, or May through August).

Special Programs

Cooperative Education College Work-Study Program

This program provides off-campus placements to undergraduate and graduate students who qualify for federal financial aid. Applicants must complete an American University financial aid application and the Financial Aid Form (FAF). College work-study funds are awarded to subsidize salaries for co-op positions offered by a variety of nonprofit private and public employers serving in the public interest.

Cooperative Education in the Federal Government

These experiences offer both undergraduate and graduate students special eligibility for noncompetitive appointments to career positions on successful completion of their degree programs.

International Cooperative Education

Several cooperative education opportunities abroad are available. Students should have working knowledge of the language of the country in which they expect to be placed. Students also attend a seminar on working abroad. Several months lead time is essential to coordinate these placements.

Washington Semester Program

Established in 1947, the Washington Semester Program provides intercollegiate programs for study in Washington of various aspects of public affairs. More than 350 students from over 200 colleges and The American University meet each semester to pursue full programs of seminars with decision makers and people involved in the policy process. Students also undertake an internship in their field of interest and complete either an intensive research project or a course elective from regular university offerings.

The Washington Semester in American National Government and Politics

This is the original program and covers the American national governmental and political system as a whole. Institutions covered include the Congress, the executive branch, parties and interest groups, the courts, and the communications media. The program is taught by members of the faculty of the School of Public Affairs.

The Washington Semester in Art and Architecture

The Washington Semester in Art and Architecture is taught by faculty from the Department of Art of the College of Arts and Sciences. The Art and Architecture Semester introduces students to the important issues and concerns of art and architecture, issues such as the function of an art museum, government vs. private support of the arts, and architectural preservation. Discussions with museum directors, curators, exhibit specialists, and visits to museums and Washington, D.C.'s, architectural treasures al-

lows students to study the cultural history of the nation through its art, architecture, and public monuments.

The Washington Semester in Peace and Conflict Resolution

The goal of the Washington Semester in Peace and Conflict Resolution is to allow students to participate on building a global society based on peace, freedom, justice, and a diminished level of violence. Taught by faculty from the School of International Service the semester includes conflict resolution theory, history, and methodologies. The students are also introduced to the skills needed for non-violent, nonexploitative conflict resolution. The semester is designed to broaden the students' understanding of the forces that move a society—either toward a heightened level of violence and exploitation or toward positive social change.

The Foreign Policy Semester

Originated as the Washington International Semester in the fall of 1970, the Foreign Policy Semester is taught by faculty from the School of International Service and, like the American National Government Semester, is open to students from both The American University and member colleges. The Foreign Policy Semester provides students with an opportunity to observe and study the manifold governmental, international, and private activities which contribute to the United States' position in world affairs.

The Washington Economic Policy Semester

Taught by faculty from the Department of Economics of the College of Arts and Sciences, this is an intensive examination of the macro and micro dimensions of policy making in the national capital. The program is designed for students with an interest in practical as well as theoretical matters. The focus is on stabilization policy in all of its aspects—theoretical, practical, and political; environmental and energy economics; the international economy and recent developments in the international monetary field; and the effects of the multinational corporation. Additional topics include tax policy, poverty and the attempts to reduce it, antitrust actions and the role of big business, and urban economic policy. The program is open to students from The American University and member colleges of the Washington Semester Program.

The Washington Justice Semester

Taught by faculty from the Department of Justice, Law, and Society, this program provides a realistic picture of the processes of the criminal justice system. The program focuses on the interrelationships of the institutions operating in the criminal justice system (law enforcement, courts, corrections); the various occupational specialties; the problems of civil justice systems; the role of research; and the local, national, and international levels of the justice system.

The Washington Journalism Semester

The School of Communication offers this intensive study of journalism in Washington, D.C. The news stories and issues that make up Washington journalism and the people and institutions that cover them are the focus of

this one-semester program. The program is open to students from The American University and member colleges of the Washington Semester Program.

The Washington Summer Internship Program

Students from colleges and universities across the United States are offered the opportunity to gain career-related, on-the-job experience through working and learning in the nation's capital. Students intern with a professional or government office for five days a week and attend an academic course in conjunction with the work experience. The program is open to students who are not currently enrolled at The American University. American University students should consult their academic departments concerning summer internship opportunities. The program is offered every summer. This course carries three credit hours.

The Washington Summer Seminar

The Washington Summer Seminar is a field study of the major component of American national government and the political processes that support and affect it. It is open to high-school juniors and seniors who receive advance college credit on completion of seminar requirements. Students attend seminars with public officials and practitioners, as well as lectures given by American University faculty. The program is offered every summer, with a two-week session offered in both June and July. This course carries two credit hours.

The Washington Journalism Institute

The Washington Journalism Institute is a two-week institute for high-school students studying practical journalism. Through a series of writing laboratories and seminars on reporting, newspaper layout and design, and editing and interviewing, students learn effective newspaper writing skills. Seminars are conducted with members of the Washington press corps on contemporary professional journalism. Two credit hours of credit are awarded on completion of the institute requirements. Laboratories and skill seminars are conducted by American University faculty. The institute is offered every summer in June and July.

Study Abroad Programs

Study abroad programs through the American University provide students the opportunity to interact with public officials and political leaders through seminars. Programs in London, Brussels, Vienna, Madrid, Beijing, and Buenos Aires offer internship opportunities in houses of parliament, government agencies, corporations, and other political and social organizations. Programs in Rome, Paris, Poland, and Copenhagen allow students to select from a variety of liberal arts courses taught by European professors.

The London Semester

The semester in London is offered every fall and spring. The program, which is patterned on the Washington Semester model, focuses on British political and economic institutions through seminars with decision makers and observers of British politics. In addition to the seminars, the program includes an internship component, a course on British theatre, and living with English host families. Through seminars, class discussions, lectures, and focused readings, the program provides a perspective of British society, politics, economics, and culture. Seminar topics include issues in British politics and society, Parliament, the cabinet and ministries, political parties, interest groups, the media, and the judicial process. Students in this program are accompanied by a member of the American University faculty.

The Rome Semester

The Rome program offers a semester or year of study with emphasis on European and Italian subjects. All courses are taught in English and are offered during the fall and spring semesters. The program provides instruction in socio-economic and political systems, art and architecture, history, and culture. Students also benefit from cross-cultural interactions with Italian student groups. Classes are frequently conducted in political party headquarters, on location with leading personalities of Italian film, art, and literature, and in museums and historical sites in and around Rome. All courses and faculty in the program are approved by The American University. Students can take courses in many fields, including history, art, political science, literature, Italian language, sociology, mathematics, and economics.

The Copenhagen Semester

The Copenhagen Semester is offered in cooperation with Denmark's International Study Program at the University of Copenhagen. Students can choose from a wide range of courses in general studies or international business that have Danish, Scandinavian, or European content and methods. The general studies curriculum includes such courses as Scandinavian Literature and Drama, Contemporary European Politics, Society and Culture of the Greenland Eskimo, and Education in Denmark. Students may enroll in such international business courses as European Integration, Marketing in Europe, and East-West Business Relations. All classes are taught in English. The program is offered during fall and spring semesters for twelve to fifteen credit hours.

The Brussels Semester

This program, offered every fall and spring, is patterned on the Washington Semester model in that students have the opportunity to interact with foreign politicians and decision makers through seminars. Seminar topics include issues and problems in NATO strategy and burden-sharing; European defense and political cooperation; U.S., Europe, and détente; the Mutual and Balanced Force Reduction Negotiations; intermediate range nuclear forces; NATO's dual track decision and arms control; East-West trade, and international economic issues. The program also includes internships with multinational

corporations and a course on U.S.-Western European economic and trade relations. Participants in the program are accompanied by a member of university faculty.

Vienna Semester

The Vienna Semester, offered every fall and spring, is similar to the programs in London and Brussels in that participants have the opportunity to meet with representatives from the political arena, the diplomatic corps, industry, the press, and cultural organizations, and to attend focused lectures by the resident director. Participants with German-language proficiency can intern with the Austrian Parliament or agencies of the United Nations. Others can take up to twelve hours of intensive German.

The Buenos Aires Semester

Patterned after the other study abroad programs, the Buenos Aires Semester, offered every fall, focuses on the political, social, economic, and international problems confronting Argentina and the region. In addition to seminars and lectures, participants have the opportunity to take a course on Argentine history and a course in intensive Spanish. Those with a working knowledge of Spanish can participate in the internship component, working two days each week with one of many domestic and international organizations.

Program in Poland

This semester or year-long program is offered at the Adam Mickiewicz University in Poznan. The program offers a broad range of subjects taught in English in small groups and tutorials. In addition, students can study Polish, Russian, German, and other languages at this university, which is recognized for its strength in languages and linguistics as well as the social sciences and humanities.

The Madrid Semester

This program, which is similar in focus to the Buenos Aires Semester, is based at the prestigious Fundacion Jose Y Ortega Y Gasset. Participants are accompanied by a full-time faculty member from The American University who provides background lectures in addition to inviting guest speakers from the political, economic, and cultural sectors of Madrid. Students also have the opportunity to take a course in Spanish Culture and Civilization and courses in intensive Spanish at various levels. Those with Spanish proficiency may do an internship in a multinational organization. Participants also gain cross-cultural experience through field trips and homestays with Spanish families.

The Paris Program

In cooperation with Via Paris, the university offers a full year or a semester program in Paris. Students must have two years of college French to participate. Students take liberal arts courses through several Parisian universities. Accommodations are provided in French family homes.

The Beijing Semester

This program is offered every fall at the University of International Business and Economics (UIBE) in Beijing, China. Participants take courses in Mandarin language,

Chinese economic cooperation and business practices, and Chinese civilization and history, and they conduct an independent study under the supervision of the resident director. Students live in dormitories on the UIBE campus and participate in intensive study tours to the other provinces of China.

Summer Study Abroad

See Summer Sessions below.

English as a Second Language

The English Language Institute offers day and evening courses in English as a second language, as well as special programs designed for sponsored groups of students. The regular program—offered during the fall, spring, and summer terms—includes intensive and semi-intensive classes at all levels of English proficiency. Classes are designed to meet the specific needs of nonnative speakers of English who intend to enroll in universities in the United States. The objective of the program is to provide students with the opportunity to improve their skill in English to the extent that language is no longer a barrier to academic study.

Regular classes during the fall and spring semesters last fourteen weeks. The summer session lasts twelve weeks. Regular students must enroll at the beginning of a session. Students who enroll only for the summer may register for one or more three week sessions.

For students admitted to degree programs at the university, the institute offers composition and reading courses at both the undergraduate and graduate levels. The undergraduate course sequence satisfies the university English requirement.

Admission to the Program

Students may apply directly to the institute by filing an application in the office of the English Language Institute, room 200, McKinley Building. The Office of International Admissions refers newly admitted international students to the institute for evaluation and placement at the beginning of each session. Once evaluated, students are placed in classes appropriate to the level of their proficiency in English or are waived from English study. ELL courses numbered below .100 do not carry credit towards graduation.

Course Requirements

Evaluations determine the required course sequence and the number of courses which may be taken outside the institute. Students placed in four English classes (intensive English) may not take any other courses concurrently. Exceptions require permission from both the English Language Institute and the student's academic adviser.

Summer Sessions

Students attending summer sessions may choose from over 400 courses in forty fields of study during six separate sessions. Students may also choose from a variety of special summer programs, including a set of specially designed Washington-focused courses. A full complement of regular courses is scheduled to allow students to continue their progress toward a degree or certificate or to pursue academic directions they have been unable to explore during other terms. Many students use the summer for an internship or cooperative education placement.

Highly selective during the academic year, the university welcomes students in good standing at other colleges and universities to its summer programs.

Institutes and Special Summer Programs

Institutes, featuring short-term credit and noncredit educational opportunities, are frequently offered during the summer by several academic units. The topics of these institutes vary widely and change from summer to summer. Recent programs have included: Campaign Management Institute; English Education Institute; Opera Workshop; Film and Video Institute; Peace Studies Institute.

Programs for High School Students

The university offers two summer programs for college-bound high-school juniors, seniors, and recent high-school graduates. Both programs offer two hours of college-level academic credit.

Washington Summer Seminar

Sponsored by the Washington Semester Program and the School of Public Affairs, this seminar allows students to examine the American political system through meetings with government decision makers and faculty of The American University. (For a full program description, see Washington Semester Program.)

Washington Journalism Institute

As a national and international media center, Washington provides students an ideal laboratory in which to investigate journalism. This seminar is offered by the faculty of the School of Communication. (For a full program description, see Washington Semester Program.)

Summer Study Abroad

Opportunities for study abroad are offered by American University professors through courses and institutes in their fields. Students have the opportunity to pursue particular themes in these programs. While programs may

change from one summer to the next, the university usually offers one or two programs each summer.

Other Programs

The National Center for Business and Economic Communication

The National Center for Business and Economic Communication was established at The American University in 1979 as an independent forum where educators, media leaders, business and labor representatives, and students can interact for the purpose of improving business and economic news reporting. The center focuses on all three of the pertinent areas of news formation and dissemination: journalism education, current reporting practice, and business and labor communication.

For further information, write to the Director, The National Center for Business and Economic Communication, Cassell 107, The American University, Washington, D.C. 20016.

The Business Council for International Understanding Institute

For thirty years, The Business Council for International Understanding Institute at The American University has been training and developing U.S. and foreign business personnel and their families for work and life in other cultures. The BCIU Institute provides workshops weekly for corporate personnel and their families from more than 400 major international corporations and has had more than 25,000 graduates living in 143 countries throughout the world. Programs consist of face-to-face language instruction in 43 languages integrated into intercultural communications workshops for 143 countries. In-company programs are conducted for executives, managers, and technicians (and their families) in area and country studies, intercultural communications, international business negotiations, international business protocol, business English communications and presentation, and American Studies. All programs have varying degrees of intercultural communications. The faculty of resource persons number over 650 experts coming from The American University and other universities, governmental agencies, international organizations, and international business corporations. The BCIU Institute reflects and has advanced the state of the art in intercultural communications for international business effectiveness overseas.

For additional information, write to the Director, The BCIU Institute The American University, Washington, D.C. 20016 or call (202) 686-2771 or fax (202) 686-5923.



Abbey Joel Butler Pavilion, a focal point for student services

Career and Advisement Services

Career Services

The Career Center offers integrated, comprehensive career services for American University students and alumni through its career education, cooperative education, and placement programs. Career Center services are based on the philosophy that career education is a life-long effort and that students' direct interaction with employers through information sessions, interviews, and field experience is essential during the college years.

To serve students most effectively, the placement and cooperative-education coordinators participate on teams that serve each college and school. Throughout the school year special programs are tailored to specific majors and professional fields. In addition, career advisers are available to talk with students about their areas of interest, direct them to appropriate resources and help them with their job search.

The programs and services available in the Career Center include Career Resources, Career Preparation, and Placement.

Career Resources

Library

Job search assistance is provided through an extensive collection of career information, including directories, books, and periodicals.

Employer Files

Hundreds of companies provide literature to help students research potential employment sites.

Career Network

Alumni and friends of the university willing to talk with students about career planning are listed by professional field, college major, and company.

Career Preparation

Workshops

The career planning services include training workshops and materials on résumé writing, interviewing, job search, and self assessment. The programs are designed to help students make a planned transition from college to work and take full advantage of cooperative education and permanent employment opportunities.

Career Advising

Career specialists advise students from each of the schools and colleges about career development and employment issues.

Career Course

To help integrate education and career planning, the course 21.203 Career Education: You and Your Future is offered each semester through the School of Education. This is a ten-week course for students who are unsure of their majors or wish to assess their skills, values, and interests for career planning.

Information Sessions

These sessions with employers give students the opportunity to learn about their career field and the job market in general. These programs provide access to employment opportunities in a wide variety of industries and geographic locations.

Job Fairs

In addition to the services mentioned above, Career Center staff host an annual Career Expo which brings over 200 employer representatives to the campus for an informal exchange of information. Career Center staff also play a leading role in organizing annual area events such as the Washington Area College and University Job Fair and the Washington International Trade and Association Career Day.

Placement

On-Campus Recruitment Program

Graduating students interview for permanent positions with recruiters who come to campus. Undergraduate students also have the opportunity to interview with graduate-school recruiters from other institutions.

Job Listings Service

In addition to listing full-time placement opportunities, the Career Center helps students support their studies by maintaining listings of part-time, temporary, and summer jobs on and off campus. Students interested in any of the part-time jobs should inquire at the Career Center as soon as possible after arriving on campus.

Credentials Service

The Career Center maintains confidential reference files for students and alumni. For a nominal fee, credential packets will be sent to prospective employers, upon the registrant's request.

Cooperative Education

For information on Cooperative Education see the beginning of this section, Special University Programs.

Advising Services

The University Programs Advisement Center provides academic counseling and registration support for all non-degree students and for students in certificate programs, the Assessment of Prior Experiential Learning Program, and the Bachelor of General Studies degree. The center also handles registrations for noncredit workshops and seminars.

The Advisement Center is staffed with experienced academic advisers who are familiar with the needs and concerns of part-time and adult students and can assist with course selection. The center is open throughout the year and holds evening and Saturday hours.

For more information, see the section on Nondegree Study in this publication or call the University Programs Advisement Center (202) 885-2500.

Courses of Instruction

Cooperative Education

Undergraduate

xx.392 Cooperative Education Field Experience (3-9) May be repeated for credit, but not in the same term; topic must be different. Offered every term. *Prerequisite:* completion of thirty credit hours of college courses, good academic standing with the university, approval of academic adviser, and placement by the co-op office.

Graduate

xx.692 Cooperative Education Field Experience (3-6) May be repeated for credit, but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* completion of nine credit hours of course work, good academic standing with the university, and approval of academic adviser, and placement by the co-op office.

University Honors Program

01.200 Honors Seminar in Arts and Humanities /A (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.201 Honors Seminar in Natural and Mathematical Sciences /N (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.202 Honors Seminar in Social Sciences /S (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.300 Honors Colloquium in Arts and Humanities /A (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.301 Honors Colloquium in Natural and Mathematical Sciences /N (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.302 Honors Colloquium in Social Sciences /S (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.390 Honors Independent Reading Course (1-6)

01.490 Honors Independent Study Project (1-6)

American Studies

Undergraduate Courses

02.100 Creativity in American Life (3) How Americans build traditions, create community, register rebellion, cope with contradictions, and dramatize shared values through expressive culture. Rotating topics include festival and ceremony, symbols and icons, forms of wisdom, musical traditions, nostalgia, and advertising as metaphor. Each topic examines the complex relationships between the arts, their producers and performers, the audience, special occasions, and everyday life. May be repeated for credit within the same term; topic must be different. Usually offered every fall.

02.140 Washington, D.C.: Life Inside a Monument (3) The unique nature of Washington as an international city, national capital, black-American cultural center, and home for its varied residents. Tensions between federal presence and local democracy. Tourism, political and cultural activities, migration and immigration, geography and the cityscape, neighborhood life. Usually offered every year.

02.202 American Dream/American Life /A, S (3) Changing American ideals and experiences. An interdisciplinary study of key themes in American self-definition (e.g., equality, opportunity, the changing landscape) as articulated by theorists and as challenged by an increasingly diverse urban and technological nation. Emphasis on ordinary citizens as well as institutions. Usually offered every fall.

02.210 Folk Traditions, Community, and Identity /A 2:2 (3) Case studies of diverse social and ethnic groups—and their verbal, material, and ritual folk traditions—reveal the ways in which folklore reflects beliefs, value

systems, regional and community identity, and history. Students interpret (and occasionally collect) traditions concerning religion, work, race and ethnicity, gender, class, age, and family life. Usually offered every fall. *Prerequisite for General Education credit:* 61.105 or 29.115. *Note:* not open to students who have taken 02.196 American Folk Traditions or 02.100 Creativity in American Life: Folk Traditions.

02.230 Tribal Traditions /A 2:2 (3) Cultural and spiritual traditions of tribal societies and their persistence despite Western expansion and enforced acculturation. Class activities highlight American Indian economics, political systems, and the place of language, oral literature, music, and ceremony in Indian societies. Similarities among indigenous societies of America, Africa, Asia, and the Pacific are stressed. Usually offered every spring. *Prerequisite for General Education credit:* 60.105 or 61.105. *Note:* not open to students who have taken 02.334 Contemporary American Culture: American Indian Experience and Tribal Talk.

02.240 Poverty and Culture /S 4:2 (3) Students explore and debate rival theories about the causes and consequences of poverty. Why poverty occurs, why certain people are poor, how poverty influences family and community life, and how the poor respond to their situation and sometimes try to change it. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 19.100. *Note:* not open to students who have taken 03.341 Culture and Poverty.

02.321 American Decades (3) Political and economic affairs, international relations, social change, literature, drama, music, and fine and popular arts in one decade of American life. May be repeated for credit in the same term; topic must be different.

02.324 Reinventing American Families (3) Interplay in American life between symbols of proper families, ideas about what is natural, and Americans' diverse choices, commitments, and experiences as they make homes together. Topics include adoption, step-kinship, gay parents, single parents, class differences, ethnic variety, public policy implications.

02.325 The Sacred and the Profane in American Life (3) Ritual and taboo as replacing the sacred and profane in secular society. Rituals include holidays, myths, heroes, sports, public and intimate interactions, and music. Taboos cover animals and nature, freaks, stigma, the human body, sexuality, madness and suicide, drugs, violence, and death.

02.334 Contemporary American Culture (3) Interdisciplinary exploration, through politics, ethnography, literature, film, and art, of institutions and attitudes with decisive influence on the shape and quality of contemporary American culture. Rotating topics include work, violence, visions of the future, the culture business, women and men, women in the popular media, and language in the United States.

02.341 Research on the City of Washington (1-6) Student group research on special topics and projects in Washington. Usually offered every term. *Prerequisite:* junior standing or one previous course in American studies, history, or literature.

02.390 Independent Reading Course in American Studies (1-6)

02.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* authorization of program director.

02.400 Interpreting American Culture (4) Seminar in American Studies theory and methods. Classic, emerging, and controversial approaches to American culture through such mixed media as architecture and photography, original documents and literary criticism, folklore and foodways, television and music. Usually offered alternate springs.

02.410 Senior Thesis I (3) Original interdisciplinary research as a capstone to the major. Students also meet in a seminar to compare experiences and discuss ways to translate American Studies theory and method into practical and professional concerns. Usually offered every fall. *Prerequisite:* 02.400

02.411 Senior Thesis II (3) Usually offered every spring. *Prerequisite:* 02.400.

02.490 Independent Study Project in American Studies (1-6)

02.491 Internship in American Studies (1-6) Practical experience in a local organization such as a government office, museum, arts agency, or social action group. How to translate American Studies theory and method into professional skills and opportunities. Interns also meet in a seminar to discuss and interpret these experiences.

Graduate and Advanced Undergraduate Course

02.590 Independent Reading Course in American Studies (1-6)

Anthropology

Undergraduate Courses

03.110 Culture: The Human Mirror /S 3:1 (3) Peoples around the world create and use systems of symbols to express their identities as members of social groups. This course draws on diverse life-cycle experiences in tribal, state-level, and post-colonial societies to explore ways that both tradition and contact with other cultures contribute to the cultural pluralism of the contemporary world. Usually offered every term.

03.150 Anthropology of American Life /S 4:1 (3) How race, gender, class, ethnicity, age, and region affect Americans' experiences of interwoven historical, economic, political, scientific, religious, and cultural processes. Usually offered every spring. *Note:* not open to students who have taken 03.100 Cultures of the World.

03.200 City as Community /S 4:2 (3) The city, as one type of human community, is examined in terms of its special social and cultural features. Students carry out field research in the Washington, D.C., metropolis to gain first-hand experience in research methods (and use their comparative study of cities for interpreting local knowledge) for such topics as ethnicity, kinship, class, and gender. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 65.100. *Note:* not open to students who have taken 03.338 City as Community.

03.201 Cultural Anthropology /S (3) An exploration of cultures to document their critical importance as the unique tool of human survival. The course provides the framework for an appreciation of cultural differences and

similarities and thereby increases understanding of the complex world we must cope with. Usually offered every term.

03.202 Human Origins /N (3) The contributions that physical anthropology and archaeology can make toward an understanding of the origins and development of humankind. Topics include genetics, the principles of evolution as applied to humans, the nonhuman primates and their behavior, human fossils, and the archaeology of the New and Old Worlds. Usually offered every term.

03.210 Roots of Racism and Interracial Harmony /S 3:2 (3) This course examines why racism has often characterized the relations between human groups, and compares these cases with other societies which have been nonracist. Social stratification, ideas about the nature and role of individual, and economic factors are considered within and across cultures. The course links analysis of the past to possible social action. Usually offered every fall. *Prerequisite:* for General Education credit: 33.140 or 29.120. *Note:* not open to students who have taken 03.100 Cultures of the World: Roots of Racism.

03.215 Sex, Gender, and Culture /S 3:2 (3) How economic systems, social structures, and values construct and redefine biological distinctions between women and men. Topics include gender in egalitarian societies; origins and consequences of patriarchy; gay and lesbian cultures; gender, politics, and social change. Case studies from tribal, state-level, and post-colonial contexts. Usually offered every spring. *Prerequisite:* for General Education credit: 03.110 or 23.150. *Note:* not open to those who have taken 03.340 Sex, Gender, and Culture.

03.220 Living in Multicultural Societies /S 3:2 (3) Foreign trade, foreign aid, tourism, and migration establish ties between peoples and cultures in spite of political and historical divisions. This course examines the effect of international migration and the growing "one-world" economy on the daily lives of peoples in West Africa, the Caribbean, and the emerging multicultural urban centers in the U.S. Usually offered every term. *Prerequisite:* for General Education credit: 33.110 or 33.140.

03.225 Language and Human Experience /A 1:2 (3) This course examines language and its contribution to creativity. It explores how knowledge of language enriches human experience. Topics include imagery and metaphor building through language; the effects of topic, speaking situation, and gender on creativity in tribal, state-level, and post-colonial contexts; and ways written language recasts and redefines human imagination. *Prerequisite:* permission of instructor or, if taken, for General Education credit, 23.120 or 67.115. *Note:* not open to students who have taken 03.337 Anthropology of Language.

03.331 Human Variation (3) Human variety is a factor in our remarkable evolutionary success. Race, age, growth, sex, blood groups, disease, and other factors are studied in regard to their contribution to human variation. Usually offered every spring.

03.334 Modern Archaeology (3) Aims and methods of archaeology as a subfield of anthropology. Consideration of archaeological evidence, data acquisition, dating, technical-typological analysis, and the means to interpret archaeological data for understanding cultural systems. Usually offered every fall. *Prerequisite:* 03.202 or permission of instructor.

03.335 Culture and Personality (3) An exploration of the ways that cultural forces influence biographical pathways,

life experiences, the patterning and expression of emotions, the experience of mental illness. Emphasis on the emergence of the self in everyday interaction and at the intersection of language and thought.

03.336 Social Structure (3) Comparative study of structure and function of political, religious, and kinship arrangements in simple and complex societies. Topical emphasis varies for different semesters. Emphasis on conflict and integration, ideas and beliefs as symbols of social relations, and problems of individual choice.

03.339 Culture Area Analysis /S (3) Examinations of particular culture areas to provide insight into the conditions that produced distinctive cultures in certain geographical regions. Examples are North American Indians, South America, Mexico and Central America, North American ethnic groups, American culture and society, Europe, India, Southeast Asia, Africa, China, and Japan. May be repeated for credit in the same term; topic must be different. Meets with 03.639. Usually offered every term.

03.342 Women and Work (3) Work roles of women throughout the world. Analyzes historical and contemporary changes in the notion of work and women's labor in tribal societies and in Western societies since the industrial revolution. Topics include unpaid work within the household and for family enterprises, as well as formal salaried enterprises. Offered irregularly.

03.390 Independent Reading Course in Anthropology (1-6)

03.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

03.430 Magic, Witchcraft, and Religion /A (3) A comparative study of magic, witchcraft, and religion in Western and non-Western societies. Topics include an analysis of ritual behavior and the ritual process, mythology, sorcery, and revitalization movements. Usually offered alternate springs.

03.431 Taboos (3) Exploration of those persons, items, experiences, and acts which so frighten and repel humans that they try to prohibit them. Includes discussion of topics rich in taboo and sensitivity, including: sexuality, witchcraft, cannibalism, human-animal relations, madness, and death. Why taboos emerge, how they are enforced, and when they are violated. Usually offered alternate springs.

03.490 Independent Study Project in Anthropology (1-6)

03.491 Internship in Anthropology (1-6) Experience in local agencies involving the transfer of anthropological thinking to practical concerns. Usually offered every term. *Prerequisite:* permission of department chair.

03.498 Senior Thesis in Anthropology (1-6) Opportunity for qualified undergraduates to carry out anthropological research under supervision of members of the faculty. Development of a written paper and participation in senior thesis seminar are required. A maximum of six credit hours may be earned under this course number. May be repeated for credit but not within the same term. Usually offered every term. *Prerequisite:* permission of department chair.

Graduate and Advanced Undergraduate Courses

03.531 Archaeology (3) Topical courses in archaeology. Areas and topics offered include: historical archaeology,

artifact analysis, archaeology of the Potomac Valley, the archaeology of North America and Mesoamerica, and archaeological laboratory practice. May be repeated for credit within the same term; topic must be different. *Prerequisite:* 03.334 or permission of instructor.

03.532 Culture Change (3) Analysis of processes involved in stabilization, conflict, and change. Differential learning, innovation, and variation. The effect of change on individuals, cultures, and specific and general evolution. Culture contact, acculturation, revitalization, and modernization. Anthropological insights for projecting and planning future developments. Usually offered every fall. *Prerequisite:* 03.201, one additional course in cultural anthropology, or graduate standing.

03.534 Economic Anthropology (3) Discussion of the principal issues linking anthropological method and theory to the nature and organization of production, distribution, and consumption in Western and non-Western society. Substantive and formalist approaches to the description of economic institutions. Subsistence and commercial production, reciprocity and redistribution, market exchange, and aspects of consumption are examined with reference to a variety of case studies. Usually offered alternate springs. *Prerequisite:* 03.201, one other course in cultural/social anthropology or permission of instructor.

03.535 Ethnicity (3) Ethnicity. Ethnic identity. Ethnocide. We react to these terms with emotions ranging from pleasure and pride to horror. Ethnicity all over the world has become a means whereby groups in large, complex societies defend their interests, avoid alienation, and create powerful rituals of self-preservation and defense. African, European, and American ethnic attitudes and experiences are discussed and compared to illustrate these themes. Usually offered alternate falls. *Prerequisite:* One course in social or cultural anthropology, e.g. 03.201.

03.537 Language and Culture (3) The interrelationship of social and linguistic patterns in cultures. Sociolinguistic issues include linguistic variation and bilingualism as related to social strata, ethnic differences, colonialism, and nation building. Ethno-semantics, ethnography of communication, and metalinguistic questions are explored. Usually offered every spring. *Prerequisite:* permission of instructor or one course in anthropology or linguistics.

03.542 Principles of Applied Anthropology (3) The role of anthropology in formulating policy and implementing social and cultural change, and in community self-determination, health, education, urban and ethnic affairs, poverty, and crime. Usually offered every fall.

03.543 Anthropology of Development (3) Anthropological approaches to the analysis of economic development and change, with attention both to development theory and to practice. Development problems as perceived at the local level, contemporary development concerns, and the organization of development agencies and projects are considered. Usually offered every fall.

03.544 Topics in Applied Anthropology (3) A discussion of case studies and examples illustrating the application of anthropological method and theory to solving practical problems in contemporary society. Regularly recurring topics include: anthropology of education, bilingual education, medical anthropology, health and nutrition, public archaeology, and anthropology of public policy. May be repeated for credit in the same term; topic must be different.

03.545 Developments in Anthropological Theory (3) Current theory and its historic roots. A capstone course drawing on method and theory in archaeology, linguistics, sociocultural anthropology, and physical anthropology. Usually offered every spring. *Prerequisite:* senior in anthropology or graduate standing.

03.550 Ethnographic Research Methods (3) A series of research exercises. Students learn how to collect genealogies, gather censuses of research populations, conduct directed and nondirected interviews, map research areas, work with photographic data, collect life histories, observe as participants, write research proposals, and evaluate data. Ethical and methodological fieldwork problems are stressed throughout. Usually offered alternate springs.

03.552 Quantitative and Qualitative Analysis (3) Anthropological data analysis using both quantitative and qualitative techniques. What the data are and how they are collected and analyzed. The course includes a brief introduction to computing in anthropology, including experience with interactive computer terminals. Usually offered every spring.

03.553 Data Banking and Multivariate Techniques (3) A consideration of storing and retrieving anthropological data and analysis. Both small and large scale data banks are studied. Analysis of the retrieved data using such techniques as factor, cluster, and proximity analysis is also covered, with a consideration of computer graphics for anthropological use. Usually offered alternate falls. *Prerequisite:* 03.552 or permission of instructor.

03.560 Summer Field School: Archaeology (3-8) Active participation in the excavation of an archaeological site. Training varies depending on the site, but usually includes site surveying, archaeological engineering, techniques of excavation, flora, fauna, and soil analysis, field laboratory practice, and on-site computer data processing. May be repeated for credit but not in the same term; topic may be the same. Usually offered every summer.

03.590 Independent Reading Course in Anthropology (1-6)

Graduate Courses

03.631 Proseminar: Cultural and Social Anthropology (3) A graduate-level overview of both the history of cultural and social theories and methods and the contemporary concerns of anthropology. Usually required of all incoming graduate students; consult the department chair. Usually offered every fall. *Prerequisite:* graduate standing.

03.634 Proseminar: Archaeology and Physical Anthropology (3) A graduate-level overview of recent work, focusing on archaeological data: their nature, strengths and weaknesses, collection, analysis, and application to anthropological goals. Also considers the role of physical anthropology in the discipline. Usually required of all incoming graduate students; consult the department chair. Usually offered every spring. *Prerequisite:* graduate standing.

03.637 Proseminar: Anthropological Linguistics (3) An overview of major topics in linguistic science as they relate to general anthropological method and theory. Usually required of all incoming graduate students; consult the department chair. Usually offered every fall. *Prerequisite:* graduate standing.

03.639 Culture Area Analysis (3) Examinations of particular culture areas to provide insight into the conditions

that produced distinctive cultures in certain geographical regions. Examples are North American Indians, South America, Mexico and Central America, North American ethnic groups, American culture and society, Europe, India, Southeast Asia, Africa, China, and Japan. May be repeated for credit in the same term; topic must be different. Meets with 03.339. Usually offered every term.

03.640 Current Issues in Anthropology (3) Seminar discussion of a particular problem of contemporary interest and its relationship to anthropological method and theory. Topic changes each semester. Regularly offered topics include: rural anthropology, structural analysis, myth and symbolism, culture and cognition, human ecology, urbanization, origins of the state, and migrations. May be repeated for credit in the same term; topic must be different.

03.690 Independent Study Project in Anthropology (1-6)

03.691 Internship in Anthropology (1-6) Experience in local agencies involving the transfer of anthropological thinking to practical concerns. Usually offered every term. *Prerequisite:* permission of department chair.

03.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

03.797 Master's Thesis Seminar (1-6)

03.799 Doctoral Dissertation Seminar (1-24)

Art

Studio

Undergraduate Courses

05.100 Art: The Studio Experience /A 1:1 (3) Studio work in painting, drawing, design, and sculpture, focusing on the interrelationship of hand, eye, and mind in creating expressive works of art. Lectures, critiques, and museum visits relate basic visual language to analytic and creative processes of the artist. Usually offered every term.

05.205 Drawing: Responding to Vision /A 1:2 (3) Studio drawing course. Drawing from direct observation as a tool of discovery and as a process of analyzing vision. Students employ traditional materials and techniques to explore questions of form and expression presented through introductory lectures and demonstrations. Class critiques and museum assignments expand possibilities for individual development. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 17.105. *Note:* not open to students who have taken 05.121 Fundamentals of Drawing.

05.210 Painting: Color, Form, Expression /A 1:2 (3) Studio painting course. Problems in form and expression presented through illustrated lectures and demonstrations. Students learn the language of painting, its structure, and its potential for personal expression. Critical sensibilities are developed through museum visits and individual and group critiques. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 07.105. *Note:* not open to students who have taken 05.120 Fundamentals of Painting.

05.215 Sculpture: Form and Expression in 3-D /A 1:2 (3) Clay sculpting from a model as a tool in learning to see.

Students master the fundamental studio skills, become conversant with the art of the past, and begin to develop a personal vision. Slide lectures, demonstrations, and museum assignments augment the studio classwork. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 05.105. *Note:* not open to students who have taken 05.122 Fundamentals of Sculpture.

05.220 Design: Color Theory and Practice /A 1:2 (3) This studio course uses paint and color samples to develop a refined perception of the world. Students study the theory, visual properties, and psychological and physiological effects of color. Class exercises explore formal aspects of color and use them expressively to communicate ideas. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 17.105. *Note:* not open to students who have taken 05.150 Introduction to Design: Color.

05.225 Design: Form, Space, Vision /A 1:2 (3) A studio design course integrating materials, visual principles and the design process to solve graphic communication problems. It develops a fluency in visual language to form a basis of aesthetic judgment and teaches a method of analysis and inquiry which underlies creative thinking. Studio practice combines with class critiques and museum visits. Usually offered every term. *Prerequisite for General Education credit:* 05.100 or 67.115. *Note:* not open to students who have taken 05.151 Introduction to Design: Two-Dimensional.

05.310 The History of Graphic Design (3) Graphic images have been used from prehistory to the computer age. A lecture-and-studio format presents the historical background for the graphic arts of calligraphy, typography, book design, mapping, diagramming, and illustration. Emphasis is put on the relationship of these applied arts to the fine arts, technology, and social history of the period as well as on the application of this visual language to contemporary design problems. Usually offered every fall. *Prerequisite:* general art survey or equivalent recommended.

05.320 Creative Painting (2-3) Studies in color, composition, and drawing from still life and figure. Individually assigned projects. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.210 or equivalent.

05.322 Special Studies in Painting (2-3) Various and specific painting subjects, approaches, or problems (such as portraiture, landscape, abstraction, color, composition) are studied singly and in depth for one semester on a rotating topical basis. May be repeated for credit but not in the same term; topic must be different. May be counted only once to satisfy a painting concentration. Usually offered every term. *Prerequisite:* 05.320, which may be taken concurrently, or equivalent.

05.340 Sculpture (2-3) Problems and principles of sculpture. Acquaintance with tools, techniques, and materials for plastic expression. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.215 or equivalent.

05.344 Ceramics (3) Basic principles of working with clay. Instruction both in wheel and in other methods of making pottery. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

05.348 Design Techniques I (3) Exploration and analysis of graphic means for design presentation. Usually offered

every term. *Prerequisite:* 05.225 or permission of instructor.

05.350 Typography: Theory and Practice (3) Theory and analysis of letter forms as design and symbol. Study of type faces, arrangement, and setting. Usually offered every fall. *Prerequisite:* 05.348 or concurrent registration.

05.351 Design Techniques II (3) Exploration and analysis of graphic means and structures for design presentation. Usually offered every term. *Prerequisite:* 05.350.

05.353 Typography: Color and Design (3) An exploration of structure, space, and color in visual communications through the study of type faces and the arrangement of words. *Prerequisite:* 05.350.

05.354 Production for Graphic Designers (3) An introduction to the technical procedures that translate graphic design from an idea to a printed piece. Includes development of comprehensive sketches, preparation of mechanicals, paper and ink selection, color separation, and printing procedures. Lecture, studio projects, and local field trips. Usually offered every fall and summer. *Prerequisite:* 05.348 and 05.350 or departmental permission.

05.356 Advanced Design I (3) Experimentation and practice in design problems relating to visual communication; emphasis on techniques and solutions of professional problems. Usually offered every fall. *Prerequisite:* 05.351 or permission of instructor.

05.357 Advanced Design II (3) Practical consideration and execution of complex design problems involving previous design training and preparation of portfolios. Usually offered every spring. *Prerequisite:* 05.356 or permission of instructor.

05.359 Illustration (3) Basic black-and-white illustration techniques including representational drawing and pictograms. Emphasis is on adaptation of illustration to reproduction. Usually offered every spring. *Prerequisite:* 05.348 or two drawing courses or permission of instructor.

05.360 Drawing (3) Structural drawing from the human figure. Movement, expression. Range of techniques and media. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.205 or equivalent.

05.364 Printmaking: Woodcut and Surface Print (3) Woodcut and relief print as media of creative expression. Emphasis on experimentation and control. Usually offered every term. *Prerequisite:* two drawing courses or one drawing and one design course.

05.390 Independent Reading Course in Art (1-6)

05.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication. *Prerequisite:* completion of thirty credit hours of course work and permission of director.

05.490 Independent Study Project in Art (1-6)

05.491 Internship (3) Usually offered every term. *Prerequisite:* approval of adviser and department chair.

Graduate and Advanced Undergraduate Courses

05.520 Techniques of Etching (3) Investigation of etching and its various techniques. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.364 or two courses in drawing.

05.533 Materials and Techniques of Painting (3) Technical investigation of painting methods from the Renaissance to the present. Preparing grounds, media, underpainting, glazing, emulsions for tempera, etc. Usually offered every fall. *Prerequisite:* two painting courses or permission of instructor.

05.560 Drawing (3) Experiments in the creative and expressive qualities of drawing. Personal creative expression. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

05.590 Independent Reading Course in Art (1-6)

Graduate Courses

05.690 Independent Study Project in Art (1-6)

05.691 Internship (3) Usually offered every term. *Prerequisite:* approval of adviser and department chair.

05.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* completion of nine credit hours of course work and permission of instructor.

05.700 Criticism of Painting (3) A theoretical and philosophical consideration of painting. Detailed analysis of artistic works. Lecture and slides. Usually offered every spring. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

05.792 Art Laboratory: Painting (3) Intensive investigation of ideas and techniques in painting. Emphasis on experimentation leading to development of individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate fine arts program or permission of instructor.

05.793 Art Laboratory: Sculpture (3) Intensive investigation of sculpture with emphasis on experimentation leading to individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of department chair.

05.795 Art Laboratory: Printmaking (3) Intensive investigation of printmaking with emphasis on experimentation leading to individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of department chair.

05.797 Master's Thesis Seminar (3-9) Independent work toward the thesis, with regular critiques and discussion. Consult the department for registration and participation requirements. Usually offered every term. *Prerequisite:* M.F.A. candidate with permission of department chair.

Art History

Undergraduate Courses

07.100 European Art: From Cave to Cathedral / A 2:1 (3) This course examines artistic monuments from the paleolithic through medieval periods, including the religious, philosophical, and social forces that shaped them. Considered are Egypt, Crete, Greece, Rome, Judaic, and Christian art and architecture from early basilicas through French Gothic cathedrals. Students are provided analytic tools for understanding art in history. Usually offered every

term. *Note:* not open to students who have taken 07.100 Survey of Art I. *Note also:* Students may not take both 07.100 and 07.105 for General Education credit.

07.101 European Art: Renaissance to the Present (3) An illustrated introduction to architecture, sculpture, and painting in the Western world between 1400 and 1980. Field trips. Usually offered every spring. *Prerequisite:* 07.100 recommended but not required.

07.105 Art: The Historical Experience /A 1:1 (3) This course introduces works of art in historical context. A selection of topics in Western art from prehistory to the present permits in-depth study of such major architectural monuments as the Parthenon, Chartres Cathedral, St. Peter's in Rome, and such artists as Michelangelo, Raphael, El Greco, Gentileschi, Rembrandt, the French Impressionists, and Picasso. Usually offered every term. *Note:* not open to students who have taken 07.105 Introduction to the History of Art. *Note also:* students may not take both 07.100 and 07.105 for General Education credit.

07.200 Art and Architecture in Rome (3) A survey of western art and architecture as exemplified in Roman museums, churches, palaces, and archaeological sites. Usually offered every term. Offered only in Rome.

07.201 Christian Archaeology in Rome (3) An introduction to the major early Christian monuments of Rome and Italy; on-site sessions in Rome and Ravenna. Usually offered every term. Offered only in Rome.

07.205 Art of the Renaissance /A 2:2 (3) Architecture, sculpture, painting, and prints of Renaissance Italy and Northern Europe. Considering the interplay of art with philosophy, theology, and social change, this course examines the artistic legacy and rich creative achievements of a culture inspired by classical antiquity, but which also understood itself as a new historic era. Usually offered every spring. *Prerequisite for General Education credit:* 07.100 or 61.105. *Note:* not open to students who have taken 07.304 Aspects of Renaissance Art.

07.210 Modern Art: Nineteenth and Twentieth Centuries /A 1:2 (3) An introduction to the art of the modern period. Presents in cultural and historical contexts the work of major artists such as David, Goya, Delacroix, Monet, Van Gogh, Cézanne, Picasso, Matisse, Duchamp, Pollock, and many others. The issue of what is unique about modern art and the expanding conception of creative expression in our era are emphasized. Usually offered once a year. *Prerequisite for General Education credit:* 05.100 or 07.105 or 67.110. *Note:* not open to students who have taken 07.306 Modern Art.

07.215 Architecture: Washington and the World /A 1:2 (3) Appreciation of our architectural heritage and a study of its history through the great buildings of Washington. Monuments such as the White House and the capitol are studied in relation to structures from which they have evolved. Students obtain a knowledge of building traditions of Washington, the United States, and the western world. Usually offered once a year. *Prerequisite for General Education credit:* 07.105 or 17.105.

07.302 Roman Art (3) Art and architecture of Rome from the republic through the empire. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

07.303 Medieval Art (3) A survey of Medieval art covering Early Christian, Byzantine, Romanesque, and Gothic developments in architecture, painting, and sculpture. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

07.305 Aspects of American Art (3) Changing topics on selected individual artists or on key themes or concepts in American art, from the colonial period to the present. Works of art and library resources in the Washington area are emphasized. Usually offered alternate years.

07.307 Women and Art (3) A selective examination of the role played in the history of art by women artists and by female imagery, with some attention to the effects of sexual stereotyping on traditional concepts of art history. Particular emphasis is given to contemporary women artists and feminist art theory. Usually offered every fall. *Prerequisite:* two courses in art history including 07.100, 07.101, or 07.105 or equivalent.

07.308 Gothic Art (3) Architecture, painting, sculpture, manuscript illuminations, and stained glass from the twelfth to the fifteenth century in Europe. *Prerequisite:* 07.100 or 07.105 or 07.303.

07.316 The Architecture of Humanism 1400-1700 (3) A history of the architecture of the Renaissance, Baroque, and Rococo periods, emphasizing the humanistic traditions of Western Europe as expressed in major buildings and in city planning.

07.318 Nineteenth- and Twentieth-Century Architecture (3) Modern architecture and the encounter of architecture with the machine age.

07.331 Painting and Sculpture in the U.S. to 1900 (3) Attention is given to relationships between American and European art. Emphasis on major artists such as Copley, Stuart, Bingham, Homer, Eakins, and Whistler and on such developments as the Hudson River School, Luminism, genre painting, women's traditional arts, and public sculpture. Usually offered every fall. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.332 Painting and Sculpture in the U.S.: 1900 to the Present (3) Attention is given to relationships between American and European art. Emphasis on major events and styles in the twentieth century, such as the Ashcan School, the Armory Show, art of the WPA, Abstract Expressionism, Pop Art, and feminist art, with attention to leading figures such as O'Keeffe, Hopper, Pollock, DeKooning, Jasper Johns, and Claes Oldenburg. Usually offered every spring. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.333 American Architecture until 1870 (3) Development of American architecture and its relation to European developments. Usually offered alternate falls.

07.334 American Architecture: 1870 to the Present (3) American architecture and city planning from the post-Civil War period to the present. Usually offered alternate springs.

07.390 Independent Reading Course in Art History (1-6)

07.490 Independent Study Project in Art History (1-6)

07.491 Internship (3) Usually offered every term. *Prerequisite:* approval of adviser and department chair.

Graduate and Advanced Undergraduate Courses

07.500 Approaches to Art History (3) Reading, discussion, and written work based on selected topics in formal analysis, style, iconography, and quality with attention to critical interpretation and writing research papers. Required for undergraduate art history majors and for grad-

uate art history students. Usually offered every fall. *Prerequisite:* four art history courses or graduate standing.

07.501 Baroque Painting (3) Seventeenth-century painting in Italy, Spain, France, the Netherlands, and England. Emphasis on Caravaggio, Rubens, Rembrandt, Vermeer, Poussin, and Velázquez. Usually offered alternate years. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.506 Renaissance Sculpture (3) Italian sculpture from the fifteenth to the seventeenth century, stressing achievements of Donatello, Michelangelo, and Bernini. *Prerequisite:* two art history courses including 07.101 or permission of instructor.

07.508 Painting: Rococo through Impressionism (3) Counter-Rococo currents in the late eighteenth century, including neoclassicism and proto-Romanticism, with a detailed study of David and Goya; French Romanticism in the art of Géricault and Delacroix; romantic landscape painting with emphasis on Turner, Constable, Friedrich, Corot, and the Barbizon School; the realism of Courbet; Manet and Degas; and Monet and the French Impressionists. Usually offered alternate years. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.510 Painting: Post-Impressionism to Expressionism (3) Reactions to Impressionism in the 1880s and 1890s in France and elsewhere in Europe. Emphasis on the art of Seurat and the Neo-Impressionists, Cézanne, Gauguin and the Symbolists, and Van Gogh. Also studied are Toulouse-Lautrec, Bonnard, Vuillard, Munch, Ensor, and Klimt. Art Nouveau and Expressionism are considered as Post-Impressionist phenomena, and their effect on the early work of Matisse and Picasso is assessed. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.511 Painting: Cubism to the Present (3) After analyzing the development of Cubism in the art of Picasso and Braque, the course discusses the Cubist followers, Gris, Léger, Delaunay, and the Italian Futurists. Also studied are the nonobjective styles of Kandinsky and Mondrian, and the Dada and Surrealist movements, with emphasis on Duchamp, Miró, and Picasso. American art since 1945 and its roots in traditions of European modernism are considered. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.513 Renaissance Painting: Giotto to Bellini (3) Developments in Florence, Siena, and other artistic centers, with regard to the formulation and solution of Renaissance pictorial problems, 1300-1475. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.514 Renaissance Painting: Leonardo to Caravaggio (3) Development of High Renaissance, Mannerist, and proto-Baroque styles. Major artistic personalities, such as Michelangelo, Raphael, Giorgione, and Titian, 1475-1580. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or 07.105 or equivalent.

07.520 Seminar in Art History (3) Reports and critical discussion of research papers on topic announced for semester. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* six art history courses or permission of instructor.

07.590 Independent Reading Course in Art History (1-6)

Graduate Courses

Note: 600-level courses generally meet with 300-level courses. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

07.602 Roman Art (3) Art and architecture of Rome from the Republic through the Empire. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105.

07.607 Women and Art (3) A selective examination of the role played in the history of art by women artists and by female imagery, with some attention to the effects of sexual stereotyping on traditional concepts of art history. Particular emphasis is given to contemporary women artists and feminist art theory. Usually offered every fall. *Prerequisite:* two art history courses including 07.100, 07.101, 07.105, or equivalent.

07.608 Gothic Art (3) Architecture, painting, sculpture, manuscript illuminations, and stained glass from the twelfth to the fifteenth century in Europe. *Prerequisite:* 07.100 or 07.105 or 07.303.

07.616 The Architecture of Humanism 1400-1700 (3) A history of the architecture of the Renaissance, Baroque, and Rococo periods, emphasizing the humanistic traditions of Western Europe as expressed in major buildings and in city planning.

07.618 Nineteenth- and Twentieth-Century Architecture (3) Modern architecture and the encounter of architecture with the machine age.

07.631 Painting and Sculpture in the U.S. to 1900 (3) Attention is given to relationships between American and European art. Emphasis on major artists such as Copley, Stuart, Bingham, Homer, Eakins, and Whistler and on such developments as the Hudson River School, Luminism, genre painting, women's traditional arts, and public sculpture. Usually offered every fall. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.632 Painting and Sculpture in the U.S.: 1900 to the Present (3) Attention is given to relationships between American and European art. Emphasis on major events and styles in the twentieth century, such as the Ashcan School, the Armory Show, art of the WPA, Abstract Expressionism, Pop Art, and feminist art, with attention to leading figures such as O'Keeffe, Hopper, Pollock, DeKooning, Jasper Johns, and Claes Oldenburg. Usually offered every spring. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.633 American Architecture until 1870 (3) Development of American architecture and its relation to European developments. Usually offered alternate falls.

07.634 American Architecture: 1870 to the Present (3) American architecture and city planning from the post-Civil War period to the present. Usually offered alternate springs.

07.690 Independent Study Project in Art History (1-6)

07.691 Internship (3-6) Usually offered every term. *Prerequisite:* approval of adviser and department chair.

07.792 Research Seminar in Art History (3) Normally drawn from one of six areas: Renaissance art, Baroque and Rococo art, nineteenth- and twentieth-century art, Amer-

ican art, and architecture. The subject is announced each semester. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to M.A. candidates with twelve hours of graduate art history with B average and permission of department chair.

07.793 Directed Research in Art History (3) Topic arranged. Must be in a field listed under 07.792, but not in field covered in 07.792 that semester. Usually offered every term. *Prerequisite:* open only to M.A. candidates with twelve hours of graduate art history with B average and permission of department chair.

Biology

Undergraduate Courses

09.100 Great Experiments in Biology /N 5:1 (3) The core of biology is the scientific experiment. This course focuses on some classic experiments that introduce students to the modern study of biology and scientific method. Experiments include ones in the molecular basis of mutation, separation of complex biologically important molecules, and the construction of demographic tables. Usually offered every fall. *Prerequisite:* completion of the College Mathematics requirement. *Note:* not open to students who have taken 01.301 Great Experiments in Biology.

09.110 General Biology I /N 5:1 (3) Living organisms function autonomously, continue to evolve, and yet exist in interdependent communities. From the perspective of evolution and the scientific method, this first course in one-year sequence offers consideration of the mechanisms of inheritance and gene expression, animal structure and function, and the interaction of populations. Usually offered every term. *Prerequisite:* completion of the college mathematics requirement or concurrent enrollment in calculus with permission of the Department of Mathematics and Statistics. *Note:* may not be taken by those who have taken 09.101 General Biology I Lecture.

09.111 General Biology I Laboratory /N 5:1 (3) Laboratory exercises examining the basis of scientific methodology by study of the genetic and mathematical precepts of inheritance, relationship between structure and function and the physical evidence for evolution. On-going study of environmental systems to assess short-term and long-term impacts of stress. Introduction to applied statistical analysis. Usually offered every term. *Prerequisite:* concurrent registration in 09.110. *Note:* not open to students who have taken 09.103 General Biology I Laboratory.

09.130 Natural History /N (4) Familiarizes non-science majors with the broad physical and biological aspects of our environment. Emphasis on common organisms and their ecological relationships; the various sciences and social aspects of environmental disruption; environmental assessment; and field and laboratory experiences. Required of environmental studies majors.

09.200 Structure and Function of the Human Body /N 5:2 (3) The human organism as a paradigm for biological organization. The relationship between structure and function of organ systems. Disease processes in the context of normal physiology; social concerns from a biological perspective. Usually offered every term. *Prerequisite for General Education credit:* 09.110 and 09.111, or 09.100, or 57.115. *Note:* not open to students who have taken 09.100 Human Biology.

09.210 General Biology II /N 5:2 (3) Basic chemical and physical concepts pertaining to the origins and evolution of cells and multicellular organisms. The biology of cells with respect to organization, architecture, structural and functional anatomy, membrane transport, and bioenergetics/metabolic types. The biological diversity and evolution of the five kingdoms. Usually offered every term. *Prerequisite:* 09.110 and 09.111 and concurrent registration in 09.211. *Note:* not open to students who have taken 09.102 General Biology II Lecture.

09.211 General Biology II Laboratory /N 5:2 (3) Experience in the processes of scientific investigation and discovery of living organisms. Experiments on cells and subcellular fractions from which qualitative and quantitative observations seek to explain biological properties, activities, and events. Living and preserved specimens of unicellular through multicellular organisms are studied. Usually offered every fall and spring. *Prerequisite:* 09.110 and 09.111 and concurrent registration in 09.210. *Note:* not open to students who have taken 09.104 General Biology II Laboratory.

09.220 The Case for Evolution /N 5:2 (3) The controversies surrounding the changes in species through time. Organic evolution: what is fact, what is hypothesis, and what is belief are assessed. The case for evolution by natural selection. Usually offered every term. *Prerequisite for General Education credit:* 09.110 and 09.111, or 09.100, or 57.115.

09.240 Oceanography /N 5:2 (3) An introduction to the study of the sea, including continental drift and plate tectonics, marine mineral resources, climatology and meteorology, currents, winds, sediments, beaches, waves, violent storms, tsunamis, tides, dunes, marshes, swamps, reefs, productivity, upwelling, fisheries, dangerous marine animals, whales, whaling, sharks, shellfish, ocean dumping, and marine law. Usually offered every spring. *Prerequisite for General Education credit:* 09.100, or 09.110 and 09.111, or 15.100, or 15.110 and 15.111, or 51.100, or 51.105 and 51.111, or 51.110 and 51.111. *Note:* not open to students who have taken 00.200 General Education Complement: The World Ocean.

09.300 Cell Biology Lecture (3) Integrated study of cell structure and function in microorganisms, plants, and animals emphasizing their ultrastructure, biochemistry, and physiology. *Prerequisite:* 09.210, 15.110, 15.111, 15.210, and 15.211; must be taken concurrently with 09.301.

09.301 Cell Biology Laboratory (1) Direct experience with the morphology and physiology of cells. Exercises include the use of pH meters, spectrophotometers, the ultracentrifuge, compound light, polarizing and phase contrast microscopes. Studies of enzyme kinetics, cell motility and respiration, chromosome structure, and fundamental histology are also conducted. *Prerequisite:* must be taken concurrently with 09.300.

09.330 Human Anatomy and Physiology I Lecture (3) With 09.331, a two-semester sequence focusing on anatomical and physiological studies of the human organism: integumentary, skeletal, muscular, and nervous systems. Lectures concentrate on normal functioning and homeostasis of the several systems. *Prerequisite:* 09.110 and one semester of chemistry or permission of instructor; must be taken concurrently with 09.332.

09.331 Human Anatomy and Physiology II Lecture (3) Continuation of 09.330, concentrating on endocrine, car-

diovascular, lymphatic, respiratory, digestive, and urogenital systems. Usually offered every spring. *Prerequisite:* one semester of chemistry or permission of instructor; must be taken concurrently with 09.333.

09.332 Human Anatomy and Physiology I Laboratory (1) Complements lecture material with time divided between cat dissection and selected experiments illustrating physiological principles. *Prerequisite:* must be taken concurrently with 09.330.

09.333 Human Anatomy and Physiology II Laboratory (1) Concentrates on the endocrine, cardiovascular, lymphatic, respiratory, digestive, and urogenital systems. Usually offered every spring. *Prerequisite:* must be taken concurrently with 09.331.

09.356 Genetics (4) Basic genetic principles as revealed by classical and modern research methods. Patterns of gene transmission; gene structure, function, interactions, and mutation; chromosomal aberrations; nonchromosomal inheritance; biochemical genetics; and population genetics. Includes laboratory. Usually offered every fall. *Prerequisite:* 09.250 or permission of instructor.

09.357 Genetics Laboratory (1) Experiments illustrating basic genetic concepts, using materials from corn, *Drosophila*, and humans. Required for B.S. degree; optional for B.A. and non-biology majors. *Prerequisite:* 09.250, and 09.356 previous or concurrent.

09.390 Independent Reading Course in Biology (1-6)

09.392 Cooperative Education Field Experience (3-9) See Cooperative Education in this publication.

09.404 Plant Structure and Function (4) Survey of plant kingdom. Evolutionary relationships of plants based on anatomy, morphology, and physiology. Plant growth and development and plant diseases. *Prerequisite:* 09.210 and 15.310.

09.410 Invertebrate Zoology Lecture (2) Structure, evolution, and physiology of invertebrate animals, marine groups, Helminthes, and certain insects. *Prerequisite:* 09.110 and 09.210; must be taken concurrently with 09.411.

09.411 Invertebrate Zoology Laboratory (2) Includes the identification of organisms within the various taxa. Sampling techniques for the collection of animals in fresh and salt-water systems; field trips for collection and identification of habitats for insects and worms; record keeping and an understanding of instrument and equipment maintenance. *Prerequisite:* must be taken concurrently with 09.410.

09.421 Human Genetics (3) An examination, at the morphological and biochemical levels, of the inherited traits of man. Major topics include inborn errors of metabolism, hemoglobins, transplantation and immunogenetics, and behavior. *Prerequisite:* 09.356.

09.423 Ecology (3) General principles of terrestrial and aquatic ecology, emphasizing deciduous forest and fresh water ecology. Students with career interests in ecology are encouraged to take 09.424 concurrently. *Prerequisite:* 09.210.

09.424 Ecology Laboratory (1) Laboratory and field investigations associated with general ecological concepts. Terrestrial and aquatic field sampling techniques. Data analysis techniques. *Prerequisite:* 09.423, which may be taken concurrently.

09.435 Vertebrate Physiology Lecture (3) Properties and physiology of vertebrate organ systems are explored. *Prerequisite:* 09.300, 15.110, and 15.210; must be taken concurrently with 09.436.

09.436 Vertebrate Physiology Laboratory (2) Illustrates selected physiological principles and encourages scientific inquiry. *Prerequisite:* must be taken concurrently with 09.435.

09.440 Microbiology (3) Introductory survey of the prokaryotes (with emphasis on bacteria): their morphology, physiology, metabolism, growth, and destruction and their role in human welfare as agents of disease and environmental change. *Prerequisite:* 09.110, 09.210, and 15.310 and concurrent registration in 09.441.

09.441 Microbiology Laboratory (2) Techniques of staining, cultivation, isolation, and identification of microbes, with emphasis on bacteria. Experiments on physiology, metabolism, and physical-chemical effects on growth and death of microbes. Optional for non-biology majors. *Prerequisite:* concurrent registration in 09.440.

09.450 Foundations of Immunology (4) The basic biology of immunity. Stressing the cellular, genetic, biochemical, and developmental aspects of "immunologic surveillance," the lectures examine immunogens, antigens, antibodies, immunoglobulin synthesis, hypersensitivity, immunologic aging, tumor immunity, and transplantation dynamics. The laboratory provides immunoglobulin analysis, *in vitro* cell culture methods, and tissue-grafting techniques. *Prerequisite:* 09.110, 09.210, 09.300, 15.110, and 15.210.

09.456 Honors Seminar (1) Presentation of summaries of recent primary literature in biology.

09.457 Honors Research (2) Students design and conduct laboratory or field research projects, write the results as scientific papers, and present the results in a departmental seminar. Pure library research projects are prohibited.

09.486 Reproduction Biology (3) A study of reproductive processes, associated diseases, and conditions involving gametogenesis through pregnancy and birth, with emphasis on the human situation. *Prerequisite:* 09.110 or 09.200.

09.490 Independent Study Project in Biology (1-6)

09.491 Internship (1-4) Usually offered every term.

09.499 Senior Seminar in Biology (3) This seminar, required of all senior biology majors, challenges students to examine unifying principles of biology. Different topics are presented in discussions, through faculty and guest speakers, readings, and individual student presentations. Usually offered every spring. *Prerequisite:* senior standing; biology majors.

Graduate and Advanced Undergraduate Courses

09.500 Advanced General Microbiology (4) Structure and functional anatomy of prokaryotic cell walls and membranes; bacterial phototrophs, autotrophs, heterotrophs, their main pathways of degradative and synthetic metabolism; mechanisms of prokaryotic genetic exchange; and regulation of gene expression. Laboratory illustrates physiological and genetic concepts. *Prerequisite:* 09.440 and organic chemistry.

09.501 Pathogenic Microbiology (4) Infectious diseases of humans with emphasis on bacterial pathogens and the biology of the causative agents. Host-parasite relation-

ships, pathogenesis, immunology, and epidemiology are studied. Laboratory. Usually offered every fall. *Prerequisite:* 09.440 and 09.441.

09.505 Introduction to Neurobiology (3) A general introduction to basic neuroanatomy and neurophysiology, with discussions of current topics in neuroscience. It is intended for advanced undergraduates in biology or psychology pursuing a natural-science curriculum, and for graduate students in biology and psychology. *Prerequisite:* one year college-level biology and permission of instructor. A course in anatomy and physiology is strongly recommended.

09.506 Introduction to Medicine and Physical Diagnosis (3) An introduction to basic techniques of physical examination, medical history-taking, and the use of laboratory tests for the diagnosis of human disease. The physiological functions of the body systems are reviewed prior to the study of common diseases afflicting humans. *Prerequisite:* permission of instructor.

09.510 Immunogenetics (3) Genetic control of immunologic reactions; inheritance of cell-borne antigens determining blood groups; and transplantation of cells, tissues, and organs. Current concepts of related immunological phenomena including cancer and pregnancy. *Prerequisite:* four courses in biology.

09.511 Animals in Research (3) The design and maintenance of animal colonies for use in toxicology and biomedical research. The construction and design of buildings, temperature controls, animal rooms, and cages. Laboratory personnel, their management, animal welfare, and federal regulations governing the use of animals. *Prerequisite:* junior standing.

09.512 Clinical Laboratory Methods (1) Lecture, demonstrations, and discussion of clinical laboratory operation: biohazard and chemical safety; tests and significances of urine, blood, body solid wastes, food, and drinking water. Usually offered every spring and fall. *Prerequisite:* one year each of biology and chemistry; must be taken concurrently with 09.513.

09.513 Clinical Laboratory (3) Intensive laboratory activities designed to develop safe clinical and other basic laboratory skills. Urinalysis; blood analysis; food analysis; drinking water analysis. Usually offered every spring and fall. *Prerequisite:* one year each of biology and chemistry; must be taken concurrently with 09.512.

09.526 Comparative Mammalian Embryology (3) Descriptive aspects of embryology of mammals. Emphasis on development of humans. *Prerequisite:* 09.358 or equivalent and permission of instructor.

09.530 Histology Lecture (3) Study of the microscopic anatomy of tissues and organs with emphasis on human microanatomy. *Prerequisite:* 09.300 or equivalent and permission of instructor; must be taken concurrently with 09.531.

09.531 Histology Laboratory (2) Involves the study of prepared slides and the learning of various histological techniques. *Prerequisite:* must be taken concurrently with 09.530.

09.532 Medical Parasitology (4) An introduction to parasitology, emphasizing the study of the host-parasite relationships of protozoan and helminthic animals infecting humans. Includes reservoirs, vectors, life cycles, epidemiology, pathogenesis, control, treatments, and diagnostic stages. Includes laboratory. *Prerequisite:* graduate or ad-

vanced undergraduate standing and permission of instructor.

09.541 Cellular Immunology (4) Current concepts of the immune response at the cellular level. Structure and function of the T-lymphocyte, B-lymphocyte, macrophages, and ancillary cells. Theories of antibody diversity and the cellular basis of immunoglobulin formation. Cellular aspects of immunologic tolerance, hypersensitivity, surveillance, and clinical immunology. Review of the current literature. Usually offered every fall. *Prerequisite:* graduate standing.

09.543 Virology (3) Characteristics of bacterial, plant, and animal viruses. Genetics and biochemistry of viral pathogenesis. Introduction to medical virology and concepts of antiviral immunity. Theories of viral oncogenesis. *Prerequisite:* 09.440 and two courses in organic chemistry.

09.544 Epidemiology (3) An introduction to the scope of epidemiology and to the designs of epidemiological studies, data evaluation, and cause and effect relationships in the characterization of disease occurrence in human populations. *Prerequisite:* 09.440, 42.202, graduate or advanced undergraduate standing, and permission of instructor.

09.550 Developmental Biology (3) The descriptive morphology, physiology, biochemistry, genetics, and molecular biology of the developmental processes in a variety of organisms. Usually offered every fall. *Prerequisite:* 09.300 or equivalent, 15.320 or equivalent, and senior or graduate standing.

09.551 Developmental Biology Laboratory (2) Training in embryo manipulation and study of prepared microscope slides in order to illustrate developmental concepts. Usually offered every fall. *Prerequisite:* concurrent registration in 09.550, 09.300 or equivalent, 15.320 or equivalent, and senior or graduate standing.

09.560 Techniques in Cell Biology (3) Basic techniques of cell and tissue culture. Aseptic technique, primary culture, culture and characterization lines, cell growth kinetics, and physical methods of cell separation. Usually offered every fall. *Prerequisite:* 09.300 or equivalent and senior or graduate standing.

09.565 Techniques of Ecological Research (3) Training in the techniques of ecological research. The course integrates sampling problems in the field, statistical analysis of the data, and interpretation of the results in terms of major ecological questions. Usually offered every fall. *Prerequisite:* 09.423 or equivalent, 42.514 or equivalent, and senior or graduate standing.

09.566 Evolutionary Mechanisms (3) The genetic composition of populations and the theory and principles of natural selection. Species formation and differentiation in Darwinian and neo-Darwinian theory. Evolution above the species level and current evolutionary concepts (such as sociobiology and catastrophe theory) are also considered. *Prerequisite:* 09.300, 09.356, or 09.358.

09.571 Topics in Zoology (1-4) The taxonomy, biogeography, and natural history of a selected group of animals. The groups and their taxonomic extent vary. Offered irregularly. *Prerequisite:* Senior or graduate standing.

09.572 Special Topics in Ecology (1-4) Selected topics and current research relating to freshwater and marine aquatic ecosystems, biogeography, and populations of plants and animals. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* one course in basic ecology.

09.574 Special Topics in Genetics (1-4) Topics such as the molecular aspects of genetic regulation, development, and recombination. Laboratory topics are also given, but not with every offering. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* permission of instructor.

09.575 Special Topics in Immunology (1-4) Seminars include a discussion of such current research interests as genetics of antibody formation, lymphocyte surface antigens, cell interactions in immune responses, and transplantation and graft-vs.-host reactions. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* permission of instructor.

09.577 Special Topics in Developmental Biology (1-4) Current research interests such as nuclear-cytoplasmic interactions, cell surface in development, developmental aspects of carcinogenesis, and gene expression in development. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 09.550 or equivalent and permission of instructor.

09.590 Independent Reading Course in Biology (1-6)

Graduate Courses

09.660 Mammalian Physiology and Pathology (3) This course is concerned with the way systems function and the way each contributes to the function of the body as a whole. A goal is to discuss and identify the toxic agents that interfere with the normal function of the body.

09.661 Techniques of Molecular Biology (3) Training in the basic manipulation of DNA, RNA, and protein. Practical experience in several different analytical and preparative procedures. Usually offered every spring. *Prerequisite:* 15.560 or equivalent.

09.664 Techniques of Evolutionary Research (3) Training in three major areas of evolutionary research: molecular evolution, quantitative genetics, and phlogenetic reconstruction. Both laboratory and quantitative skills are developed. Usually offered every spring. *Prerequisite:* 09.566 or equivalent, 42.514 or equivalent.

09.679 Aquatic Toxicology (3-4) The principles and applications of physiological toxicology, toxicological methodology and data, bioaccumulation of aquatic contaminants, and the fate of chemicals in the aquatic environment. Students conduct standardized bio-assays and evaluate the toxicity of selected compounds to selected trophic levels. *Prerequisite:* 09.556, 09.681, graduate standing, and permission of instructor

09.680 Introduction to Toxic Materials (3) Past and present bio-political decisions in the context of specific effects on resources and policy. Bio-political resource-management decisions with indirect and direct wildlife implications as related to toxic and hazardous materials. Actual and hypothetical decision processes scrutinized as to their predictability and consequences.

09.681 Pesticide Degradation in the Environment (3) Metabolism of pesticides and other hazardous materials is reviewed. The type of reaction, degradation by class, effects of ultra-violet and sunlight, and general differences and similarities between metabolism of plants and animals are discussed.

09.682 Federal Regulations for Toxic Materials (3) The values and hazards of agricultural chemicals and other environmental pollutants. Integrated crop management. Statutes, regulations, laws, and environmental quality.

09.690 Independent Study Project in Biology (1-6)

09.691 Internship (1-6)

09.692 Cooperative Education Field Experience (3-6) See Cooperative Education in this publication.

09.700 Graduate Seminar (1) May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* graduate standing in biology.

09.730 Advanced Cell Physiology (4) The structure and functions of cellular components: chromosomes, mitochondria, membranes, nuclear-cytoplasmic interactions, and chloroplasts. Offers current information about mechanisms involved. *Prerequisite:* 09.250 and graduate standing in biology or permission of instructor.

09.790 Biology Literature Research (1-6) Students conduct a literature search on some aspect of the biological sciences under the direction of their guidance committee, culminating in the submission of a review paper. Satisfies part of the degree requirements for the M.A. degree in biology. Usually offered every term. *Prerequisite:* M.A. candidate in biology.

09.797 Master's Thesis Research (1-6) *Prerequisite:* M.S. candidate in biology.

Business Administration

Management

Undergraduate Courses

10.352 Introduction to Management Information Systems (3) Information as an organizational resource, decision-making frameworks, transaction processing systems, decision support systems, external information systems, office automation, competitive information systems, accounting and financial applications, marketing applications, production applications, needs assessment, system design and implementation, organizational impacts, and social issues. A technology update is provided in hardware and software basics, database management systems, and telecommunications. Usually offered every term. *Prerequisite:* 40.260 or 40.280; 14.241; 10.353, which may be taken concurrently.

10.353 Principles of Organizational Theory, Behavior, and Management (3) Current management theories, research, and practice. Course content represents a synthesis of behavioral sciences providing a broad framework for management. Topics include organizational goals and responsibilities, models, decision theory, planning control, organization, motivation, leadership, group behavior, conflict, and organizational change. Usually offered every term. *Prerequisite:* junior standing.

10.354 Business Applications of Computers /N (3) Applications of information systems and various software packages to the solution of business problems. *Prerequisite:* 40.260 or 40.280 and 10.352.

10.355 Production/Operations Management /N (3) Fundamental concepts of operations management. Introduction to operations research and to management science and its interdisciplinary aspects. Basic elements of decision theory, inventory models, linear programming (L/P), production models, simulation, waiting lines, etc. Usually offered every term. *Prerequisite:* junior standing

and all KCBA requirements in economics, mathematics, statistics, and computer science.

10.381 Principles of Human Resources Management

(3) Understanding the principles and operations of personnel administration and industrial-relations systems in organizations by analyzing and applying theoretical concepts to functional situations. Usually offered every term. *Prerequisite:* junior standing.

10.382 Employee Participation in Decision Making

(3) An analysis of the concepts and principles of union-management relationships through an emphasis of the historical, legal, economic, social, and behavioral dynamics of union and management interactions in various settings. Usually offered every fall term. *Prerequisite:* 10.381.

10.383 Topics in Human Resources Management (3)

Uses problems and case histories to develop decision-making proficiency in the functional areas of personnel administration and industrial relations. Usually offered every spring. *Prerequisite:* 10.381 and 10.382.

10.384 Applications of Performance Appraisal (3)

The course focuses on the function and design of performance appraisal systems as tools of professional development, coaching and counseling, merit-compensation determinations, and goal implementation. Students examine the assets and liabilities of alternative methods of performance-appraisal systems. Applications are oriented to the role of the personnel manager. Usually offered every spring. *Prerequisite:* 10.381.

10.390 Independent Reading Course in Business Administration (1-6)

Prerequisite: junior standing.

10.391 Internship in Business Administration (1-6)

Prerequisite: junior standing.

10.392 Cooperative Education Field Experience (3-9)

See description under Cooperative Education in this publication. *Prerequisite:* junior standing and nine credit hours in business including any relevant business core courses specified by the department.

10.454 Managing Information for Business Decision Making (3)

Use of computer-based modeling systems and computer graphics to support business decisions. Qualitative and quantitative aspects of business decision making, business decision support systems, decision insight systems and expert systems. Experience with business software application packages. *Prerequisite:* senior standing and 10.354.

10.455 Business Management Information Systems Practicum (3)

Capstone course for undergraduate BMIS program. Design and implementation of a business management information system by student teams. Management of information systems function in business settings, other professional issues. *Prerequisite:* senior standing, 55.460, and completion of all BMIS requirements except 10.454 which may be taken concurrently.

10.458 Business Policy and Strategy (3)

Integration of knowledge in functional areas of business and simulation of management experiences. Various methods of simulating a management environment are employed, including case studies and computerized management problems. Usually offered every term. *Prerequisite:* senior standing and completion of all junior-level courses.

10.481 Wage and Salary Administration (3)

This course surveys and analyzes basic concepts of compensation

administration in private sector organizations. It covers the foundation for wage and salary programs, methods of job evaluation, building wage and salary structures, and the legal constraints on compensation programs. Usually offered every fall. *Prerequisite:* 10.381 and 10.382.

10.482 Pension and Benefits Management (3)

Analyzes management requirements for legally required benefits such as OASDI, health insurance, unemployment insurance, and worker compensation. Provides in-depth examination of social insurance programs, ERISA, and pension fund management. Usually offered every spring. *Prerequisite:* 10.381, 10.382, 10.383, and 10.481.

10.490 Independent Study Project in Business Administration (1-6)

Graduate and Advanced Undergraduate Courses

10.585 Equal Employment Opportunity (3)

An analysis of labor-force demographics, study of the Civil Rights Act and amendments, and study of other discrimination-oriented legislation. The course focuses on providing equal employment opportunities in organizations, how to establish affirmative action programs, and how to evaluate the effectiveness of EEO in organizations. *Prerequisite:* 10.381, 10.382, and 10.383.

10.590 Independent Reading Course in Business Administration (1-6)

Graduate Courses

10.606 Managerial Statistics (3)

Statistical tools applied to the analysis and resolution of managerial problems with emphasis upon regression. Use of standard computer programs using Statistical Analysis System (SAS). Usually offered every term. *Prerequisite:* A course in calculus, the KCBA mathematics workshop, or permission of department chair.

10.608 Production and Operations Management (3)

Quantitative methods of operations research (O.R.) models and production management applications. Problem identification, mathematical model construction, computer-oriented solutions, sensitivity analyses, and model validation. Conceptual understanding of the use of O.R. models in the decision-making process of production and operations management. Usually offered every term. *Prerequisite:* 10.606 or equivalent.

10.610 Organizational Theory and Behavior (3)

Topics include authority and leadership, motivation and morale, work groups and group dynamics, communication, informal systems, planning and management by objectives, concepts of organizational development, organizational structure and processes, systems approach, decision making, control systems, and organizational conflict and change. Usually offered every term.

10.611 Managerial Economics (3)

Fundamental analytical tools of economics applicable to decision making. Research of empirical and theoretical studies and evaluation of their application to economic analysis in management. Usually offered every term.

10.612 Business Economics (3)

Macroeconomic analysis and study of determinants of national income, output, employment, and price levels. National income accounting and classical as well as Keynesian economic models. Fiscal and monetary policy. Usually offered every term. *Prerequisite:* 10.611.

10.614 Operations and Systems Management (3) Techniques and concepts of operations and systems management. Operations strategies for productivity, demand forecasting, setting standards, capacity planning and master scheduling (PERT, CPM) facilities location and aggregate planning. Quality control, reliability, and maintenance management integrated into methods to evolve optimized solutions. Usually offered every term. *Prerequisite:* permission of department chair.

10.655 Management Information Systems (3) Decision-making frameworks, types of information systems, needs assessment, selection and evaluation, implementation, social and policy issues. Computer applications to business decisions. Usually offered every term. *Prerequisite:* 14.603, 10.606, and 10.610.

10.657 Business Applications of Database Management Systems (3) Transaction-processing and information-reporting systems found in business organizations. A special emphasis on database management systems as a foundation for business reporting. Office information systems and management use of external database. *Prerequisite:* 10.655.

10.658 Managing Information as a Corporate Resource (3) Managing the information-systems function within business organizations including strategic planning for BMIS, alternatives for delivering computer-based business applications, and information systems for corporate competitive advantage. *Prerequisite:* 10.655, 11.601, and 13.605.

10.659 Applications of Business Decision Support Systems (3) Business decision-making theories, appropriate roles for various information technologies in support of large-scale, complex business decisions. Software to facilitate the monitoring of external events, forecasting and planning, decision modeling and evaluating alternatives and risks. Expert systems applied to business decisions and information support for unstructured decisions. *Prerequisite:* 10.655 and 10.608.

10.660 Business Applications Development Practicum (3) Capstone course for graduate BMIS program. Design and implementation of business management information systems by student teams. Case studies of successful and unsuccessful system development projects. Information requirements analysis in business environment. Overview of systems development process. *Prerequisite:* 10.657 and 10.659.

10.671 Issues in Human Resources Management (3) Functional issues and current developments in administering the personnel resources of contemporary private-sector organizations. Usually offered every fall.

10.681 Wage and Salary Administration (3) This course analyzes concepts and practices of compensation administration in organizations. It covers wage and salary programs, methods of job evaluation, building wage and salary structures, and the legal constraints on the wage and salary administrator and on compensation programs. Usually offered every fall.

10.682 Seminar in Pension and Benefits Management (3) Analyzes the Social Security Act and its offshoots as applied to private, single, and multiemployer plans, ERISA, OASDI, health insurance, unemployment insurance, and worker compensation. Provides skills in pension-fund management. Usually offered every spring. *Prerequisite:* 10.671 and 10.681; or permission of department chair.

10.684 Seminar in Performance Appraisal (3) This course reviews performance-appraisal systems as tools of the management process. The various performance-appraisal techniques, role of rater and rated, and the organizations are examined during this comprehensive review. Current research in performance appraisal is emphasized and discussed. Usually offered every spring. *Prerequisite:* 10.671 or permission of department chair.

10.686 Management-Union Relations (3) Explores the nature of the collective bargaining system in the United States and the parties having a vital interest in the system. The course deals primarily with formal organizations designed to represent the interests of employers, workers, and the general public. It presents historical background, current practices, and future directions of unions; management strategies in dealing with unions; and the collective bargaining process. *Prerequisite:* 10.381, 10.382, and 10.383.

10.690 Independent Study Project in Business Administration (1-6)

10.691 Internship (3-6) A work-study experience normally taken by students who have no previous professional work experience. Generally taken in the summer following the first year of graduate study. Design of project and monitoring through completion are details worked out among student, supervising faculty member, and employer. *Prerequisite:* 3.00 overall grade-point average and permission of the department chair.

10.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication

10.694 Training & Development (3) Current problems and issues in personnel training and development at all organizational levels, with emphasis on the middle management level. Usually offered every other year. *Prerequisite:* 10.671 or permission of department chair.

10.695 The Legal Environment of Human Resource Management (3) Examines the legal regulation of collective bargaining by analyzing legislative acts, judicial decisions, and administrative determinations that define the rights and govern the behavior of employers and unions in contemporary industrial society. Usually offered alternate falls. *Prerequisite:* 10.671 or permission of department chair.

10.755 Strategic Management (3) Unites the various majors and disciplines taught in the Kogod College of Business Administration. Conceptual skills for integration of previously learned aspects of corporations. A framework for analyzing organizational problems. Strategic management concepts, research, and theories as they apply to organizational analysis. Analytical and decision-making skills are developed through the use of simulations and case studies. *Prerequisite:* completion of all graduate core course requirements or permission of department chair.

10.758 Seminar in Management Planning and Control (3) Concepts and requirements of planning and control systems. Analytical tools required for output-oriented program structure. Application of measurements to management information systems with emphasis on interdependence between quantitative and behavioral fields. Comparison between market- and non-market-oriented budgetary processes. Usually offered every term. *Prerequisite:* for KGBA students, completion of all first-stage M.B.A. courses or equivalent; for all other students, permission of department chair.

10.759 Simulation and Gaming (3) Analyzes various models and provides tools for model building. Simulations of continuous and discrete systems are made. Analysis of business games that allow for decision making. Various analytical models and simulations are studied and compared. Usually offered every spring. *Prerequisite:* 10.758 or permission of the department chair.

10.760 Seminar in Operations Analysis (3) Capstone seminar in the Operations Analysis and Information Systems major and involves real-time, on-going, real-life research projects. Students formulate and complete applications of management science techniques. Supervised research and discussions. Usually offered every spring. *Prerequisite:* 10.758 or permission of department chair.

10.792 Seminar in Industrial Relations Administration (3) Research into current problems, issues, and developments in industrial relations administration. Usually offered every spring. *Prerequisite:* 10.671 or permission of department chair.

10.795 Seminar in Human Resources Planning (3) Concepts and techniques of personnel resource planning, with special emphasis on projections of manpower requirements. Usually offered every summer. *Prerequisite:* 10.671 or permission of department chair.

Marketing

Undergraduate Courses

11.300 Principles of Marketing (3) Introduction to marketing decision making in business and nonprofit organizations. Particular attention is devoted to analysis of customer needs; segmenting markets; and developing product, promotion, pricing, and distribution strategies. Relationships between consumers, business, and government are explored. Usually offered every term. *Prerequisite:* 19.101, 19.102, and junior standing.

11.301 Consumer Behavior (3) Study of marketing, psychology, sociology, and cultural anthropology to determine motivations for product purchases. A multimedia approach is used to illustrate the use of behavioral science theory to create new products and promotional campaigns. Students learn to analyze consumer decisions for products or services and to determine effectiveness of information provided by government and charitable organizations. Usually offered every term. *Prerequisite:* 11.300.

11.390 Independent Reading Course in Business Administration (1-6)

11.391 Internship in Business Administration (3-6) Designed to provide valuable field experience for students seeking careers in advertising, marketing research, strategic planning, international marketing, sales, retailing, and product management. Consists of fifteen hours a week in a marketing position, group meetings with director and other interns, and a written report. *Prerequisite:* 11.300.

11.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* 11.300.

11.401 Marketing Research (3) Study of research tools used to aid marketing decision making. Considers definition of research problems, selection of projects, and analysis of data. Execution of a consumer survey is a major component of the course. Students use the computer to analyze research data. Usually offered every term. *Prerequisite:*

11.301 and 42.300; may be taken concurrently with 42.300.

11.402 Marketing Problems (3) Analysis of current marketing management issues. Students develop a marketing plan for an outside organization, analyze case studies, and participate in computer simulation exercises. Usually offered every term. *Prerequisite:* 11.401 and senior standing; may be taken concurrently with 11.401.

11.411 Promotion Management (3) The role of advertising, public relations, personal selling, and sales promotion in business. Emphasis on how promotional campaigns are planned, created, and budgeted, and how these campaigns can inform buyers, change attitudes, and increase sales. Usually offered every term. *Prerequisite:* 11.300.

11.412 Advertising Campaigns (3) Development of an advertising campaign for a client. Includes formulation of advertising strategy, media planning, media buying, creative execution, and campaign evaluation. Usually offered every term. *Prerequisite:* 11.300.

11.421 Sales Management (3) An introduction to professional sales force management. Designed to develop skills in planning the sales program, organizing the selling effort, and recruiting, training, and motivating the sales force. Usually offered every spring. *Prerequisite:* 11.300.

11.436 Retailing Management (3) Creation and management of retailing institutions. Topics include buying, merchandising, pricing, promotion, inventory management, customer service, and location decisions. Field trips to major retail establishments, guest speakers, and development of a plan for a new retail store are the major components of the course. Usually offered every fall. *Prerequisite:* 11.300.

11.490 Independent Study Project in Business Administration (1-6) *Prerequisite:* junior standing.

Graduate and Advanced Undergraduate Course

11.590 Independent Reading Course in Business Administration (1-6)

Graduate Courses

11.601 Marketing Management (3) Examination of strategies used by marketing managers to solve business problems. Students learn to make marketing decisions by analyzing environmental constraints and market opportunities. Completion of case studies, analysis of actual business problems, and development of a strategic plan for a business are covered. Usually offered every term. *Prerequisite:* 10.611 and 14.603.

11.602 Consumer Behavior (3) Factors influencing consumer motivation and behavior. Consumer decision-making processes and their marketing implications. Students analyze the role of culture, personality, lifestyle, and attitudes in consumer decisions. Usually offered every term. *Prerequisite:* 11.601 or permission of department chair.

11.603 Industrial and Government Markets (3) Study of markets for industrial goods and services. Emphasizes differences between consumer and industrial marketing, pricing strategies, distribution decisions, product development, and promotional decisions. Use of case studies and guest speakers. Usually offered every spring. *Prerequisite:* 11.601 or permission of department chair.

11.604 Marketing Research (3) Study of research principles used to solve marketing problems. Students, in

cooperation with outside organizations, develop market studies, collect data, analyze data, and present a report to management. Research projects, guest speakers from research firms, and analysis of data using the computer are included in the course. Usually offered every term. *Prerequisite:* 11.601 and 10.606, or permission of department chair.

11.605 Promotion Management (3) Problems of managing promotional operations in the firm, including advertising, sales promotion, merchandising, personal selling, public relations, and institutional promotion (individually, and as part of strategically coordinated promotional programs) are approached from a managerial point of view. For students seeking careers in sales, advertising, or public relations. Usually offered every spring. *Prerequisite:* 11.601 or permission of department chair.

11.606 Marketing and Public Policy (3) Seminar course that explores marketers' responses to the changing legal and regulatory environment. Topics include the impact on marketing practice of copyright and trademark law; warranties; products liability; food and drug, product safety, and deceptive advertising regulations; and antitrust law. The course features prominent guest speakers who debate current issues with the class. Usually offered every spring. *Prerequisite:* 11.300 and senior standing, or 11.601.

11.607 Strategic Marketing (3) The strategic or long-range planning process is explored from the perspective of the marketing decision-maker. Interaction with other functional areas such as finance and production is emphasized. The course includes preparation of a strategic plan for a major firm and exposure to guest speakers. Usually offered every term. *Prerequisite:* 11.601 and 11.605 or permission of department chair.

11.660 Principles of Procurement Management (3) The management of procurement by both the government and private sectors. Includes organizations and procedures; requirements; budgeting; government marketing by the private sector; negotiations; proposal preparation; kinds of contracts; the political environment; special considerations, such as small business and equal opportunity; ethics; and case studies. Usually offered every term.

11.661 Federal Procurement Law (3) The law as applied to government procurement programs. Derivation of federal procurement law from the Constitution, statutes, executive orders, regulation, court decision, and administrative rulings. Application of law to each step of the federal procurement process. Usually offered every fall. *Prerequisite:* 11.660.

11.662 Materials Management and Purchasing (3) The management of materials and services in a business or government organization. Production and operations; forecasting and market analysis; source selection; procurement and purchasing; physical supply; inventory control; inventory valuation; transportation and physical distribution; and ethics. Usually offered every fall. *Prerequisite:* 11.660 and 10.606.

11.663 Cost and Price Analysis (3) Cost and price analysis considered from the viewpoint of the government and of the private sector in procurement. Principles governing the determination of allowable, allocable, and reasonable contract costs, both direct and indirect; contractor cost and price considerations; case studies. Usually offered every spring. *Prerequisite:* 11.660 and 14.603.

11.664 Contract Administration (3) The management of government contracts in the post-award phase. The legal

basis for contract oversight, quality assurance, reliability and maintainability, production controls, financing, cost controls, value engineering, contract termination, and disputes. Usually offered every spring. *Prerequisite:* 11.660.

11.666 Major-Systems Acquisition (3) Management and the major-systems acquisition process. Topics include program management; acquisition strategy; A-109; source selection and negotiation; risk analysis; productivity; costing and pricing; changes; multinational considerations; and the management of subcontractors. Usually offered every fall. *Prerequisite:* 11.660 and 11.663.

11.667 Service Contracting (3) The course concentrates on aspects of service contracting that are unique or different from product or systems. Includes Service Contract Act and OMB circular A-76 as guidelines for decisions between government and contract sources for needed services. Usually offered every spring. *Prerequisite:* 11.660 and 11.663.

11.669 Seminar in Procurement Policy (3) The development of procurement policy at the highest levels of government. The originators of procurement policy and their interaction with the private sector. Policy implementation, including method, and the influence and roles of participants. The impact of procurement policies and responsibility for policy management changes. Usually offered every fall. *Prerequisite:* 11.660, 11.661, and 11.664.

11.690 Independent Study Project in Business Administration (1-6)

11.691 Internship (3-6) Designed to provide valuable field experience to students seeking careers in advertising, marketing research, strategic planning, international marketing, sales, retailing, and product management. Consists of fifteen hours a week in a marketing position, group meeting with director and other interns, and a written report. *Prerequisite:* 11.601.

11.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* twelve graduate credit hours taken in residence, including 11.601.

International Business

Undergraduate Courses

12.300 Fundamentals of International Business (3) An introductory course that studies the nature and scope of international trade and investment, international institutions, the international monetary system and exchange markets, and some of the major issues involved in the functional aspects of international business. Usually offered every term. *Prerequisite:* junior standing.

12.301 International Marketing (3) The concepts and practices of marketing across national borders and the adaptations to the marketing program required because of the different needs, environmental constraints, and forms of competition in foreign markets. Usually offered every term. *Prerequisite:* 11.300 and 12.300.

12.302 International Finance (3) The structure and nature of the international monetary system and the operation of exchange markets, foreign exchange exposure, and foreign capital markets. The cost of capital in an international context is also studied, as well as some of the major issues in international accounting, taxation, and

banking. Usually offered every term. *Prerequisite:* 12.300 and 13.365.

12.391 Internship in Business Administration (1-6)
Prerequisite: junior standing.

12.392 Cooperative Education Field Experience (3-6)
See description under Cooperative Education in this publication. *Prerequisite:* junior standing and nine credit hours in business including any relevant business core courses specified by the department.

12.401 Cultural Environment of International Business (3) The cultural factors affecting international business operations and their influence on the principal business functions of finance, marketing, procurement, production, public and external relations, and research and development. Usually offered every term. *Prerequisite:* 12.300.

12.404 Multinational Accounting Issues (3) Major differences in selected national accounting systems, comparative accounting practices, currency translation and consolidation of financial statements, problems with inflationary/delationary currencies, transfer pricing, international financial disclosure, and multinational taxation issues. Usually offered every fall. *Prerequisite:* 14.240 and 14.241, or 14.603.

12.490 Independent Study Project in International Business (1-6)

Graduate and Advanced Undergraduate Courses

12.507 International Human Resource Management (3) This course focuses on the components of international human resource management and how they are used by multinational corporations. Students examine international compensation systems, international recruiting policies, international training and development programs, international labor relations issues, performance appraisal in the international environment, cross-cultural considerations, and safety and termination considerations. Usually offered every spring. *Prerequisite:* 12.300 or 12.600.

Graduate Courses

12.600 Manager in the International Economy (3) The practice and principles involved in conducting the functional aspects of business in an international context; includes the study of the nature, scope, and trends of international business as well as the international monetary system, international agreements, and considerations resulting from the environmental differences between nations. Usually offered every term. *Prerequisite:* 10.611.

12.601 International Marketing (3) The strategic approach to marketing products and services across national borders, including the modification of the elements of the marketing program to meet the different market needs, environmental constraints, and forms of competition in foreign markets. Usually offered every term. *Prerequisite:* 11.601 and 12.600.

12.602 International Finance (3) Financial operation of the multinational firm, including the sources of funds, foreign investment decisions, and international transactions and taxation. Also included is a study of the related aspects of the international monetary system, foreign exchange markets, and international banking. Usually offered every term. *Prerequisite:* 12.600 and 13.605.

12.603 Comparative Management Systems (3) The study of business organizational structures and management procedures in different international environments and the applications of important foreign developments in management for U.S. business. Usually offered every spring. *Prerequisite:* 10.610 and 12.600.

12.605 Legal Issues of International Business (3) An introduction to the legal issues facing international business, including a study of the international legal process, minimum standard, national laws and allens, jurisdictional conflicts, transnational reach of national laws, and international contracts for distribution, licensing, and joint ventures. Usually offered every term.

12.606 International Banking (3) A focus on both the theory and practice of banking in an international context; also examines the reasons for the expansion of international banking, the economic role and operations of international financial markets, the strategies and activities of international banks, and the managerial problems encountered by international banks. Usually offered every term. *Prerequisite:* 12.600 and 12.602.

12.690 Independent Study Project in Business Administration (1-6)

12.691 Internship (3-6) A work-study experience normally taken by students who have no previous professional work experience. Generally taken in the summer following the first year of graduate study. Design of project and monitoring through completion are details worked out among student, supervising faculty member, and employer. *Prerequisite:* 3.00 overall average or permission of associate dean.

12.692 Cooperative Education Field Experience (3-6)
See description under Cooperative Education in this publication.

12.701 Seminar in International Business (3) A seminar discussion of student research efforts on the conduct of international business in Western Europe, Latin America and the Caribbean, the Middle East and Africa, the Far East, or the Socialist countries. The research concentrates on the different business practices that are required because of the different cultural, economic, legal, and political environment of the region. Usually offered every term. *Prerequisite:* to be taken during the last semester of study for International Business majors.

Finance and Real Estate

Undergraduate Courses

13.201 Business Law (3) The scope of business law. Individual, business, and legal relationships. Legal concepts, philosophy, and functions. Federal and state court systems. Survey of contracts, sales, agency, business forms, and property. Introduction to negotiable instruments. Usually offered every term. *Prerequisite:* sophomore standing.

13.202 Advanced Business Law (3) Functions, form, and content of commercial paper. Law of real and personal property. Legal bibliography. Legal requirements of business. Case research. Usually offered every term. *Prerequisite:* 13.201.

13.212 Personal Finance (3) Investigation of the principles of personal financial management. Topics include budgeting, consumerism, taxes, credit, savings and savings instruments, insurance (life, health, automobile, fire,

and property), housing, investments (stocks, bonds, mutual funds, annuities, and real estate), and estate planning. Usually offered every term.

13.365 Corporate Finance (3) Introduction to business finance; acquisition and use of short-term funds and long-term capital; overview of money and capital markets; management of asset, liability, and capital accounts; financial analysis and time value of money; cash, operation, and long-range budgeting; leasing; corporate securities; dividend policy; and cost of capital. Usually offered every term. *Prerequisite:* 14.241, 42.202 and junior standing.

13.370 Urban Development /S (3) Economic and other objectives in an urban society. The function of an urban economy and forces affecting urban development. Social change, market operations, and public facilities management. Rapid changes and associated land development. Economic base theory and theories of land development. Usually offered every term. *Prerequisite:* junior standing.

13.373 Real Estate Principles and Transactions (3) Principles and practices of listing real property, agreement of sale, and title transfer of ownership and interests. Drawing documents: contracts, deeds, leases, financing, and other instruments. Private and public property rights, liens, taxes, assessments, and other claims on real estate. Mathematical problems for license examination. Approved for the real estate salesperson examination. Usually offered every term. *Prerequisite:* junior standing.

13.390 Independent Reading Course in Business Administration (1-6) *Prerequisite:* junior standing.

13.391 Internship in Business Administration (1-6) *Prerequisite:* junior standing.

13.392 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* junior standing and nine credit hours in business including any relevant business core courses specified by the department.

13.452 Business Responsibility in American Society /A,S (3) The conceptual and historical framework in which the American firm performs as an institution of the community. The relationship between business responsibility and public policy. Emphasis on student participation and cases. Usually offered every term. *Prerequisite:* junior standing.

13.460 Institute on Property Management I (3) Management of commercial and residential property. Rental values, neighborhood analysis, tenant selection, leasing, and tenant-owner relationships. Usually offered every fall. Has an institute fee in addition to tuition. (IREM 301)

13.462 Real Estate Appraisal Principles (1) A comprehensive overview of the valuation process. Principles of gathering and analyzing data to be used in the three approaches to value. For students entering the field of real estate appraisal and working with residential or commercial properties. Usually offered every fall during the first eight weeks. Has a special tuition rate and institute fee.

13.463 Residential Valuation (2) A practical foundation in residential valuation. Topics include: the residential appraisal process; site data and analysis; highest and best-use analysis; improvements, inspection, and description; cost, income, and sales comparison approaches; special-purpose properties, including condominium, recreational, and residential; and short-form narrative reports and form reports. Usually offered every fall during

the second eight weeks. Has a special tuition rate and institution fee. *Prerequisite:* 13.462.

13.464 Financial Markets and Institutions (3) The history, purposes, functions, and organizations of the short-term money market and long-term capital market. An integrated view of the participating institutions and the markets in which they operate, their investment constraints, and resulting portfolios. The role of the Federal Reserve System. Usually offered every term. *Prerequisite:* 13.365 and 19.306.

13.468 Financial Decision Making (3) Investment, financing, and dividend-policy decisions of the financial manager. Case studies and problems are some of the tools used to enable the student to make and see the effects of financial decisions. Usually offered every term. *Prerequisite:* 13.365.

13.469 Investment Analysis (3) Investment objectives. Methods of appraising corporate equity, debt, and other securities. Portfolio theory and management, technical analysis, random walk theory, and the role of institutional investors. Case studies and computer simulation are employed. Usually offered every term. *Prerequisite:* 13.365.

13.474 Real Estate Finance and Economics (3) Impact of the national economy on real estate; application of macroeconomics (GNP, consumer spending, inflation, interest rates, and other data) to housing and commercial property; mortgage market analysis, including ARMs and creative financing, secondary mortgage markets, MBSs, CMOs, and other new developments in real estate finance. Usually offered every term.

13.476 Real Estate Investment Strategy (3) Investment objectives, risks, and rewards. Resource characteristics and administration. Development decisions and analyses, mortgage finance, cost and availability of funds, location analysis, property analysis, and valuation. Usually offered every term. Capstone course for undergraduate real estate majors. *Prerequisite:* 13.474.

13.478 Basic Real Estate Law (3) A survey of the history and philosophy of real estate, its concepts and principles, legal relationships, and the functions of the law of real estate. Rights, fixtures, ownership, conveyance, acquisition, mortgages, agreements of sale, brokerage, landlord-tenant relations, zoning, eminent domain, and government regulations are covered. Usually offered every spring.

13.490 Independent Study Project in Business Administration (1-6)

Graduate and Advanced Undergraduate Courses

13.571 Financial Futures and Options (3) Extensive analysis of debt and equity-based futures contracts. Pricing considerations and other characteristics of futures contracts, characteristics of future exchanges and futures market participants, and applications of futures markets. Currency futures are considered to a limited extent. Options pricing and the nature and uses of options on stocks, stock indices, and debt instruments. Usually offered every fall. *Prerequisite:* undergraduate: Senior Finance or Economics major plus B average or permission of the department chair; graduate: 13.605 plus one additional finance course.

13.590 Independent Reading Course in Business Administration (1-6)

Graduate Courses

13.604 Business and Society (3) Historic and contemporary relations of business to such societal factors as the legal and ethical environment, government regulation, economic and societal trends. Company management of business and societal issues, including methods of influencing public opinion and the public-policy process. Usually offered every term.

13.605 Financial Management (3) An introduction to analytical techniques, such as ratios and present value, which form the basis of financial analysis. Emphasis on the corporate-asset investment decision including long-term capital budgeting, cash, inventory, and accounts receivable. An analysis of the financing media, capital and money markets, interest rates, risk-return determination, security valuation, cost-of-capital, dividend policy, and leasing. Usually offered every term. *Prerequisite:* 14.603 and 10.606.

13.634 Basic Valuation Procedures (2) Topics include land site valuation, cost approach, market data approach, and income approach. Usually offered every fall during the second eight weeks. Has a special tuition rate and institution fee. *Prerequisite:* 13.462.

13.635 Capitalization Theory and Techniques A (1) A comprehensive study of the principles of the income approach to value. Comparative methods and techniques of income capitalization are identified and explored to give the entry-level appraiser a practical working knowledge of the capitalization process. Usually offered every spring during the first eight weeks. Has a special tuition rate and institution fee. *Prerequisite:* 13.462 and 13.534.

13.636 Capitalization Theory and Techniques B (2) The mathematics of yield capitalization wherein the fundamentals of discounting processes are applied to various patterns of income and to future values. An introduction to investment value concepts for the appraiser involved in the valuation of income properties. Usually offered every spring during the second eight weeks. Has a special tuition rate and institution fee. *Prerequisite:* 13.535.

13.638 Case Studies in Real Estate Valuation (1) Designed to apply the principles, theories, and techniques presented in "Principles", "Procedures", and "Capitalization" courses in problem and case-study situations. Group-study methods are used to analyze and solve the case studies. Usually offered every fall during the first eight weeks. Has a special tuition rate and institution fee. *Prerequisite:* 13.636.

13.639 Valuation Analysis and Report Writing (2) Analysis of valuation situations and development of appraisal reports. A comprehensive case study will be used as the format for the course. For advanced students and practicing appraisers. Offered irregularly. Has a special tuition rate and institution fee.

13.648 Legal Concepts of Business Organizations (3) An intensive introduction to law and the legal system. Usually offered every term.

13.650 Advanced Financial Management (3) An in-depth exposure to both long and short term corporate investment and financing decisions. Included are management of cash balances, credit and inventory, capital budgeting of fixed assets under risk and inflation, leasing, cost-of-capital, acquisition analysis, mergers, leverage, and asset redeployment strategies. *Prerequisite:* 13.605.

13.651 Financial Strategy (3) The course covers techniques and tools used in the development, assessment and implementation of a firm's financial strategy. Discussions include in-depth processes by which shareholder values are created, transferred, or destroyed. More specifically, these strategies relate to capital acquisition, capital restructuring and asset redeployment. Usually offered every term. *Prerequisite:* 13.605 and 13.650.

13.655 Securities Analysis (3) This course covers topics such as, investment instruments and their characteristics; securities markets and their operations, securities valuation principles and models, three step valuation procedure; aggregate market analysis, industry analysis, company analysis, technical analysis; efficient market hypothesis, options and futures. Usually offered every fall. *Prerequisite:* 13.605.

13.656 Portfolio Theory and Management (3) Course will emphasize portfolio theory and practice for managing equity and debt securities portfolios. Portfolio construction, evaluation, and revision will also be discussed. Advanced topics on portfolio management like portfolio insurance will also be covered. Usually offered every spring. *Prerequisite:* 13.605 and 13.655.

13.661 Institute on Property Management II (3) Advanced analysis of multi-unit apartments, office buildings, and shopping centers. Legal, tax, and financing aspects. Regional analysis and urban redevelopment. Creative management. Usually offered every spring. Has an institute fee in addition to tuition. (IREM 400) *Prerequisite:* 13.460 or graduate standing.

13.663 Institute on Property Management IV (3) Long-range residential, office, and retail property-management planning. Identifying and solving problems, market study, research and sources of information, applying procedures and solutions. Has an institute fee in addition to tuition. (IREM 500) *Prerequisite:* 13.460 or permission of the program director.

13.665 Financial Statement Analysis (3) Appraisal of prevailing techniques of statement analysis. Significance of generally accepted accounting principles. Development of analytic methods from the viewpoint of financial management. Usually offered every fall. *Prerequisite:* 13.605.

13.666 Long-Term Capital Management (3) An examination of the investment, financing, and dividend policy decisions of firms. Emphasis on theoretical and applied techniques through case analysis and financial simulation. Usually offered every term. *Prerequisite:* 13.605.

13.667 Short-Term Funds Management (3) Managerial knowledge of the money market from the viewpoint of the financial manager meeting short-term requirements and investing temporarily excess idle funds. Means of investing idle funds commensurate with risk and return. Emphasis on techniques of managing corporate short-term investment portfolios. Usually offered every term. *Prerequisite:* 13.605.

13.668 Advanced Investment Analysis (3) Critical evaluation of current methods of analyzing and selecting securities. Investment theories and timing. Portfolio construction and management. Efficient capital markets and technical analysis. Usually offered every term. *Prerequisite:* 13.605.

13.671 Financial Management of Depository Institutions (3) The determination of the financial structure and policies of individual depository institutions. Capital and

dividend policies, investment policies, asset/liability management, and roles and effects of government regulation. Usually offered alternate terms. *Prerequisite:* 13.605.

13.678 Real Estate and Property Law (3) Survey of the history and philosophy of real estate, its concepts and principles, legal relationships, and the functions of the law of real estate. Rights, fixtures, ownership, conveyance, acquisition, mortgages, agreements of sale, brokerage, landlord-tenant relations, zoning, eminent domain, and government regulations. Case study and research; field research. Usually offered every fall.

13.679 Real Estate and Land Economics (3) Principles of real estate and land economics as a foundation for real estate analysis. The study of real estate economics. Studies of residential and commercial development; public facilities and improvements. Location theory, economic base, location and project difficulties and opportunities, land values and uses, urban rehabilitation and restoration, and neighborhood change. Usually offered every fall.

13.683 Real Estate Analysis (3) Market studies, feasibility analysis, re-use studies, appraisal, and other types of analyses relating to demand and supply of real estate in local markets. Sources of information. Analysis of population and changing city, residential, and commercial real estate. Forecasting. Specific research on real estate sites and projects. Usually offered every fall. *Prerequisite:* 13.679, 13.684, and 13.685 recommended

13.684 Real Estate Finance and Mortgage Markets (3) Financing instruments and methods used in real estate. Sources and uses of private funds, mortgage markets, primary and secondary mortgage market-makers, and investment-type instruments. Alternative mortgage instruments and creative financing techniques. Selected case studies and research. Usually offered every spring. *Prerequisite:* 13.605.

13.685 Land Use and Development (3) Property development by the private sector. Land values and uses. Location problems and opportunities of households, businesses, and industry. Changes in land-use patterns produced by market forces and public policies. The study of "quality" projects produced in the private marketplace. Usually offered every spring.

13.690 Independent Study Project in Business Administration (1-6)

13.691 Internship (3-6) A work-study experience normally taken by students who have no previous professional work experience. Generally taken in the summer following the first year of graduate study. Design of project and monitoring through completion are details worked out among student, supervising faculty member, and employer. *Prerequisite:* 3.00 overall average or permission of associate dean.

13.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication

13.765 Seminar in Finance (3) Current issues and recent developments in corporate financial management, investments, and financial institutions. Review of literature to cover the entire area of business finance. Usually offered every spring and summer. *Prerequisite:* three advanced finance courses or permission of department chair.

13.776 Seminar in Real Estate and Urban Development (3) Capstone seminar dealing with problems of managing real estate resources and related business en-

terprises. Management of urban development in a changing environment. Decision making in an uncertain economy. Individual field-research projects. Required for all graduate real estate majors. Usually offered every spring. *Prerequisite:* 13.683

Accounting and Taxation

Undergraduate Courses

14.240 Principles of Accounting I (3) Basic principles underlying financial statements. Assets, equities, and income measurement. Usually offered every term. *Prerequisite:* sophomore standing.

14.241 Principles of Accounting II (3) Continuation of 14.240. Introduction to fundamentals of management accounting for planning and control. Uses of accounting data. Usually offered every term. *Prerequisite:* 14.240.

14.340 Intermediate Accounting I (3) Valuation of assets and equities. Measurement of business income. Generally accepted accounting principles. Financial statements and analysis. Usually offered every term. *Prerequisite:* 14.241, junior standing, and a C or better in 14.240 and 14.241.

14.341 Intermediate Accounting II (3) Continuation of 14.340. Accounting issuances by the APB and FASB. Financial statements and analysis. Usually offered every term. *Prerequisite:* 14.340.

14.345 Cost Accounting (3) Uses of accounting data for planning, control, and decision making. Budgets and standard costs. Concepts and techniques. Usually offered every term. *Prerequisite:* 14.241 and junior standing.

14.390 Independent Reading Course in Accounting (1-6) *Prerequisite:* junior standing.

14.391 Internship in Accounting (1-6) *Prerequisite:* junior standing.

14.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

14.443 Taxation I (3) Introduction to federal income taxation of individuals. *Prerequisite:* 14.241 and junior standing.

14.444 Taxation II (3) Selected topics in federal income tax for individuals, partnerships, and corporations. Specialized areas such as estates and trusts. Usually offered every term. *Prerequisite:* 14.340 and 14.443.

14.449 Auditing (3) Auditing objectives, standards, and procedures. Audit workpapers. Tests and sampling. Usually offered every term. *Prerequisite:* 14.341.

14.450 Introduction to Accounting Information Systems (3) Concepts and techniques of analyzing computer-based accounting information systems. Usually offered every term. *Prerequisite:* 14.345 or permission of department chair.

14.480 Accounting Theory and Problems (3) Accounting issuances of FASB and APB. General principles of theory. General price level and current value. Usually offered every term. *Prerequisite:* 14.341.

14.490 Independent Study Project in Business Administration (1-6)

Graduate and Advanced Undergraduate Courses

14.547 Advanced Financial Accounting (3) Theory and practices of accounting for partnerships, business combinations, and consolidated financial statements. Advanced topics in financial accounting. Usually offered every term. *Prerequisite:* 14.341 or 14.641.

14.590 Independent Reading Course in Business Administration (1-6)

Graduate Courses

14.602 Legal Environment of Professional Accounting (3) A study of the legal environment of business with emphasis on aspects of business law of particular importance to professional accountants. Ethical, social, and political considerations as they affect business organizations and the practice of public accountancy are also emphasized. Usually offered every spring.

14.603 Accounting Concepts and Applications (3) Fundamentals, concentrating on the uses of accounting as a tool of management. The strengths and limitations of accounting as an information system. Topics selected from both financial and managerial aspects of accounting and focus on the underlying concepts of accounting, the role of accounting in management planning and control, and the usefulness of accounting data for evaluating the results of operations and making decisions. Usually offered every term.

14.604 Federal Income Taxation (3) A study of federal income tax laws relating to individuals, partnerships, and corporations. Usually offered every term. *Prerequisite:* 14.603 or permission of department chair.

14.630 Legislative and Judicial Foundations of Income Tax (3) Legislative and judicial concepts common to all areas of income taxation. Emphasis on analysis of court decisions to trace the development of judicial doctrines. Subject areas: substance over form, characteristics of income, dispositions of assets, capital gains and losses, tax credits, limitations on business expenses and losses, tax accounting principles. Usually offered every term. *Prerequisite:* admission to the graduate tax program or permission of the program director.

14.631 Tax Research and Procedure (3) Thorough analysis of techniques for performing sophisticated tax research: looseleaf services, treatises, IRS sources, court decisions. Analysis of tax procedure: IRS organization; audit procedures; assessment, collection, and refund; limitations; penalties; responsibility in tax practice. Emphasis on practical applications. Usually offered every term. *Prerequisite:* admission to the graduate tax program or permission of the program director.

14.632 Estate and Gift Tax (3) Detailed analysis of the federal estate and gift taxes and an overview of the income taxation of estates and trusts (Subchapter J). Usually offered every fall. *Prerequisite:* 14.630, which may be taken concurrently.

14.633 Corporation Income Taxation I (3) Income taxation of corporations and their shareholders; organization, capital structure, dividends and other nonliquidating distributions, redemptions, liquidations, taxation of S corporations. Usually offered every fall. *Prerequisite:* 14.630 or permission of the program director.

14.640 Financial Accounting I (3) Conceptual framework, methodological approaches, and problematic appli-

cations of financial accounting theory. Emphasis on the relationship between generally accepted accounting principles and the preparation of financial statements. Usually offered every term. *Prerequisite:* 14.603 or permission of department chair.

14.641 Financial Accounting II (3) A continuation of 14.640 with special emphasis on financial accounting issues and problems related to authoritative pronouncements of the APB and FASB. Income measurement, valuation of assets and equities, and financial reporting and analysis. Usually offered every term. *Prerequisite:* 14.640.

14.645 Managerial Cost Accounting (3) Uses of accounting data for managerial decision making. Concepts and techniques of planning and control relating to budgets, standard costs, and relevant costs. Cost accounting systems; job order and process. Usually offered every term. *Prerequisite:* 14.603.

14.649 Auditing Theory and Practice (3) Auditing objectives and procedures. Generally accepted auditing standards, audit tests, sampling procedures and reporting requirements. Professional ethics. Usually offered every term. *Prerequisite:* 14.641.

14.650 Accounting Information Systems (3) Concepts and techniques of analyzing, designing, and implementing accounting information systems. Evaluation of computer and non-computer-based information systems for organizations of various kinds. Usually offered every fall. *Prerequisite:* 14.345 or 14.645 and permission of department chair.

14.660 Governmental, Not-for-Profit, and Fiduciary Accounting (3) Municipal, state, federal government, and not-for-profit accounting and the traditional coverage of estates and trust and corporate reorganization and liquidation. Usually offered every spring. *Prerequisite:* 14.341 and permission of department chair.

14.670 Accounting for Multinational Operations (3) Basic concepts and technical issues in international accounting. A broad introduction to the international business dimension as a context for in depth study of accounting in a multinational environment. Topics include internationalization of accounting standards, currency translation problems, transfer pricing, and comparative practices in reporting. Usually offered every spring. *Prerequisite:* 14.603.

14.690 Independent Study Project in Business Administration (1-6)

14.691 Internship (3-6) A work-study experience normally taken by students who have no previous professional work experience. Generally taken in the summer following the first year of graduate study. Design of project and monitoring through completion are details worked out among student, supervising faculty member, and employer. *Prerequisite:* 3.00 overall average or permission of associate dean.

14.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this Publication.

14.739 Managerial Accounting and Business Policy (3) Integration of managerial aspects of accounting, business policy, and the managerial functions of strategic decision making, planning, and control. Consideration of both quantitative and behavioral aspects. Case methodology. Usually offered every spring. *Prerequisite:* 14.641, 14.645, and permission of department chair.

14.740 Corporation Income Taxation II (3) A continuation of 14.633: accumulated earnings and personal holding-company penalty taxes, collapsible corporations, corporate reorganizations, carryover of corporate tax attributes, multiple corporations, and consolidated returns. Usually offered every spring and summer. *Prerequisite:* 14.630 and 14.633.

14.741 State and Local Taxation (3) Examination of the constitutional and practical constraints on taxing jurisdiction of state and local governments. Topics: conformity with federal law, apportionment of income, multistate and multinational corporation problems, transaction taxes, property taxes, death and gift taxes. Detailed analysis of the Uniform Division of Income for Tax Purposes Act (UDITPA). Offered irregularly. *Prerequisite:* admission to the graduate tax program or permission of the program director.

14.742 Special Tax Topics (1-3) Selected specialized tax topics or analysis of current tax legislation. Topics might include taxation of banks, insurance companies, security transactions, tax exempt organizations, cooperatives, or natural resources. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* permission of the program director.

14.743 International Taxation (3) U.S. tax law related to investment by U.S. persons overseas and foreign persons in the United States. Specific topics include the foreign tax credit, Subpart F, PFIC's, FSC's transfer pricing, FIRPTA, section 911, and the role of tax treaties. Usually offered every summer. *Prerequisite:* 14.630 and 14.633.

14.744 Advanced Topics in Tax Accounting and Procedure (3) A continuation of the tax accounting and procedure coverage in the core courses. Tax accounting: long-term contracts advanced inventory considerations. Procedure: written determinations and rulings, liens, crimes, judicial proceedings, mitigation of limitations. Offered irregularly. *Prerequisites:* 14.630 and 14.631.

14.745 Employee Benefit Tax Planning (3) Analysis of income tax aspects of compensation benefits for employees at all levels and for self-employed persons. Detailed consideration of qualified pension and profit-sharing plans, individual retirement accounts, Keogh plans, statutory and nonstatutory stock options, and other fringe benefits (life insurance, medical plans, etc.). Offered irregularly. *Prerequisite:* 14.630.

14.746 Taxation of Real Estate Transactions (3) Income tax aspects of acquiring, operating, and disposing of investment and personal real estate. Detailed consideration of deductions (including ACRS), conventional and creative financing techniques, foreclosures and repossessions, subdivision, sale/leaseback transactions, tax-deferred exchanges, involuntary conversions, sale of a principal residence, and special problems of agricultural property. Offered irregularly. *Prerequisite:* 14.630 or permission of the program director.

14.747 Partnership Taxation (3) Income tax aspects of transfers to a partnership, distributions, withdrawal or death of a partner, dissolution, sales and exchanges of partnerships interests, special partnership allocations, use of the partnership as a vehicle for investment syndication. Usually offered every term. *Prerequisite:* 14.630.

14.747 Partnership Taxation (3) Income tax aspects of transfers to a partnership, distributions, withdrawal or death of a partner, dissolution, sales and exchanges of partnerships interests, special partnership allocations,

use of the partnership as a vehicle for investment syndication. Usually offered every spring. *Prerequisite:* 14.630.

14.750 Tax Policy (3) Study of the economic, social, ethical, and political forces in the development of tax policy. Specifically addressed are alternative approaches to taxing income, the practical political environment of enacting tax legislation, and the international influences on U.S. tax policy. Usually offered every spring. *Prerequisite:* final semester of the graduate tax program or permission of the program director.

14.751 Seminar in Business Tax Planning (3) Use of case methodology to integrate tax considerations with accounting, economic, managerial, and nontax legal considerations for planning corporate transactions. Topics: organization of a close corporation, dividends and other corporate distributions, corporate combinations, corporate liquidations, corporate divisions. Usually offered every fall. *Prerequisite:* 14.633 or permission of the program director.

14.752 Seminar in Family Financial Planning (3) Use of case methodology to integrate income, estate, and gift tax implications with nontax legal considerations in establishing a financial plan within the family unit. Included is detailed consideration of income taxation of estate and trusts (Subchapter J). Topics: estate-planning legal mechanisms, charitable and family gifts, private foundations, disposal of business interests. Usually offered every spring. *Prerequisite:* 14.632.

14.780 Seminar in Accounting Theory (3) Development of accounting theory. Analysis of current accounting problems and review of relevant literature. Usually offered every spring. *Prerequisite:* 14.547 and permission of department chair.

14.797 Masters Thesis Seminar (3-6) Subject matter of the paper and scope of research are determined by the student in consultation with the appropriate graduate accounting faculty. Usually offered every term.

Chemistry

Undergraduate Courses

15.100 Chemistry for the Modern World /N 5:1 (3) A general introduction to chemistry: the composition of materials, their structures and properties, and related energy conversions in living and nonliving systems. Questions of scientific inquiry and the scientific method in cultural and historical contexts. Usually offered every term. *Prerequisite:* completion of College Mathematics requirement.

15.110 General Chemistry I /N 5:1 (3) A general introduction to chemistry: the scientific method; the structure of the atom; chemical calculations; and the composition of materials, their structures and properties, and related energy conversions. This course builds a sound foundation of vocabulary and conceptual knowledge in chemistry. Three hours of lecture and one hour of discussion each week. Usually offered every fall. *Prerequisite:* completion of the College Mathematics requirement or concurrent enrollment in calculus with permission of the Department of Mathematics and Statistics. High-school chemistry or 15.100 is recommended. Must be taken concurrently with 15.111. *Note:* not open to students who have taken 15.120 General Chemistry I.

15.111 General Chemistry I Laboratory /N 5:1 (1) Laboratory work related to the material covered in 15.110: the scientific method, measurements using scientific apparatuses, collection and manipulation of data, error analysis, illustration of scientific principles. Usually offered every fall. *Prerequisite:* must be taken concurrently with 15.110. *Note:* not open to students who have taken 15.121 General Chemistry Laboratory I.

15.200 Human Biochemistry /N 5:2 (3) The structures, functions, and energetics of the molecules found in human beings. The origin of life. Molecular aspects of health and nutrition, the biotechnological revolution and prospects for genetic engineering. Three hours of lecture and one hour of discussion each week. Usually offered every spring. *Prerequisite for General Education credit:* 15.100, or 15.110 and 15.111.

15.210 General Chemistry II /N 5:2 (3) Energy conversion, properties of solutions, equilibrium and its relation to thermodynamics as well as everyday life, acid-base chemistry and its practical applications, properties of materials in aqueous solution, nuclear chemistry, oxidation-reduction reactions, and bonding and molecular structure. Usually offered every spring. *Prerequisite:* 15.110 and 15.111 must be taken concurrently with 15.211. *Note:* not open to students who have taken 15.130 General Chemistry II.

15.211 General Chemistry II Laboratory /N 5:2 (1) Laboratory work related to the material covered in 15.210: the scientific method, measurements using scientific equipment, collection and manipulation of data, error analysis, and the illustration of scientific principles. Usually offered every spring. *Prerequisite:* 15.110 and 15.111 must be taken concurrently with 15.210. *Note:* not open to students who have taken 15.131 General Chemistry II Laboratory.

15.220 Environmental Chemistry /N 5:2 (3) General discussion of the chemistry of our environment. A description of the ideal unpolluted environment and a historic view of pollution are presented. Classes and interactions of pollutants with the environment will be described. Emphasis is placed on understanding the chemistry of pollutants and how they affect our quality of life. Usually offered every fall. *Prerequisite for General Education credit:* 15.100, or 15.110 and 15.111.

15.230 Earth Sciences /N 5:2 (3) Combines geology, geophysics, and geochemistry in describing the evolution of our planet, the deep structure of the earth, its plate tectonic evolution, and interaction of the crust with the hydrosphere, biosphere, and atmosphere. Three hours of lecture each week with occasional laboratory demonstrations and field trips. Usually offered every fall. *Prerequisites for General Education credit:* 09.100, or 09.110 and 09.111, or 15.100, or 15.110 and 15.111, or 51.100, or 51.105 and 51.111, or 51.110 and 51.111. *Note:* not open to students who have taken 15.103 Earth Sciences.

15.310 Organic Chemistry I (3) Systematic treatment of hydrocarbons, alkyl halides, alcohols, carbonyl compounds, acids, and their derivatives. Ionic and free radical reactions and stereochemistry. Three hours of lecture and one hour of seminar. Usually offered every fall and summer. *Prerequisite:* 15.130. Must be taken concurrently with 15.312.

15.312 Organic Chemistry I Laboratory (1) Laboratory theory and practice in synthesis, separation, and purification of organic compounds. Introduction to modern separation techniques including thin-layer, column, and gas chromatography. Usually offered every fall and summer. *Prerequisite:* concurrent registration in 15.310.

15.320 Organic Chemistry II (3) Aliphatic and aromatic compounds and electrophilic substitution; spectral methods; and nitrogen compounds and their derivatives. Introduction to polyfunctional compounds including amino acids, carbohydrates, lipids, and nucleic acids. Three hours of lecture and one hour of seminar. Usually offered every spring and summer. *Prerequisite:* 15.310. Must be taken concurrently with 15.322.

15.322 Organic Chemistry II Laboratory (1) Multistep syntheses. Synthesis of polyfunctional compounds. Introduction to infrared and nuclear magnetic resonance spectra. Qualitative organic analysis. Four hours of laboratory. Usually offered every spring and summer. *Prerequisite:* must be taken concurrently with 15.320.

15.350 Quantitative Analysis (3) Theory of acid-base, complexation, precipitation, and redox equilibria. Volumetric and gravimetric analyses. Separations. Statistical analysis of data. Separation and analysis of complex mixtures. Usually offered every fall. *Prerequisite:* 15.130 and 41.221. Must be taken concurrently with 15.351.

15.351 Quantitative Analysis Laboratory (2) Practice in classical analytical methods of analysis, including precipitation titrations and gravimetric analysis; neutralization titrations and potentiometric methods; oxidation, reduction, and complex formation titrations; and electrochemical methods. Computer-assisted statistical analysis of data. Six hours of laboratory. Usually offered every fall. *Prerequisite:* must be taken concurrently with 15.350.

15.390 Independent Reading Course (1-6)

15.398 Honors: Junior Year (1-3) Work on an independent chemical laboratory research project under the direction of a faculty adviser. Progress reports may be required at the discretion of the adviser. Usually offered every fall. *Prerequisite:* 15.322 and concurrent registration in 15.507.

15.399 Honors: Junior Year (1-3) See description of 15.398. Usually offered every spring and summer. *Prerequisite:* 15.322, 15.507, and a grade of B or better in 15.398 if taken.

15.410 Physical Chemistry I (3) Properties of gases; kinetic molecular theory; quantum mechanics; energies of collections of molecules; first law of thermodynamics; thermochemistry; free energy; and chemical equilibrium. Usually offered every fall. *Prerequisite:* 15.320, 51.221, and prior or concurrent registration in 41.223. Must be taken concurrently with 15.411.

15.411 Physical Chemistry I Laboratory (2) Mathematical techniques; high vacuum systems; gamma of gases; heats of solutions; thermocouples; refractometry; fluid viscosity; rates of reactions; electrical conductivity; and ionization constants, free energy, enthalpy, and entropy of an electrochemical reaction. One hour of lecture and three hours of laboratory. Usually offered every fall. *Prerequisite:* Must be taken concurrently with 15.410.

15.420 Physical Chemistry II (3) Electrolytes in solution; EMF of chemical cells; chemical kinetics; quantum mechanics and atomic structure; chemical bonding; and spectroscopic methods. Usually offered every spring. *Prerequisite:* 15.410. Must be taken concurrently with 15.421.

15.421 Physical Chemistry II Laboratory (2) Franck-Hertz experiment, operation of oscilloscopes and electro-

scopes, Faraday effect, Hall effect, magnetic susceptibility, dielectric constant, spectrum of beta-carotene, viscosity of polymers, molecular weight by light scattering, critical surface tension, and tensile strength of polymers. One hour of lecture and three hours of laboratory. Usually offered every spring. *Prerequisite:* Must be taken concurrently with 15.420.

15.460 Instrumental Analysis (3) Theory of optical and electroanalytical methods, including spectrophotometry, fluorimetry, spectrography, and flame and atomic spectroscopy, ion-selective electrodes, polarography; amperometry; mass spectrometry; chromatography; electronics; radiometric techniques; isotope dilution; and neutron activation analysis. Analysis of errors. Must be taken concurrently with 15.461. Usually offered every spring. *Prerequisite:* 15.350 and 41.222; must be taken concurrently with 15.461.

15.461 Instrumental Analysis Laboratory (2) Practice in modern methods of instrumental analysis including atomic absorption and emission spectroscopy; gas and high pressure liquid chromatography; nuclear magnetic resonance, ultraviolet, visible, infrared, and fluorescence spectroscopy; and measurements with ion selective electrodes. Six hours of laboratory. Usually offered every spring. *Prerequisite:* must be taken concurrently with 15.460.

15.490 Independent Study Project (1-6)

15.491 Internship (1-6)

15.498 Honors: Senior Year (1-3) See description of 15.398. Usually offered every fall. *Prerequisite:* 15.421, 15.461, prior or concurrent registration in 15.507, and a grade of B or better in 15.399 if taken.

15.499 Honors: Senior Year (1-3) See description of 15.398. A senior thesis must be written and the results of research presented at a departmental seminar. Usually offered every spring. *Prerequisite:* a grade of B or better in 15.498.

Graduate and Advanced Undergraduate Courses

15.501 Principles of Analytical Chemistry (3) For beginning graduate students. Spectroscopic and chromatographic techniques, electrochemistry, and data treatment. Two hours of lecture and three hours of laboratory. Usually offered every spring. *Prerequisite:* 15.350.

15.502 Principles of Physical Chemistry (3) For life scientists, biology majors, and toxicologists. Molecular structure, gases, crystals, liquids, molecular spectra, acid-base reactions, thermochemistry and the first law of thermodynamics, entropy and the second law, free energy, electrochemistry, equilibria, chemical kinetics, reaction mechanisms, and transport processes. Usually offered every fall. *Prerequisite:* 15.130.

15.504 Principles of Biochemistry (3) One-semester survey of biochemistry. No credit for biochemistry majors or Ph.D. students in chemical toxicology. Cell structure of amino acids, proteins, carbohydrates, lipids, and nucleic acids. Enzymatic catalysis. Glycolysis, citric acid cycle, oxidative phosphorylation. DNA replication and repair, gene expression. Membranes, transport, and signal transmission. Immunoglobulins. Genetic engineering and monoclonal antibodies. Oncogenes. *Prerequisite:* 15.320.

15.506 Human Physiological Chemistry (3) Cell structure. Structures and functions of amino acids, peptides, and proteins. Characteristics of blood, hemoglobin, and

enzymes. Central metabolism and bioenergetics. Neurotransmission and muscle contraction. Metabolism of carbohydrates, fatty acids, lipids, and amino acids. Hormonal regulation. Experiments coordinated with the lectures. Two hours of lecture and two hours of laboratory. May not be used to fulfill requirements in either chemistry or biology graduate degree programs. Usually offered every spring. *Prerequisite:* 15.210 or permission of the Director of the Health/Fitness Management Program.

15.507 Chemical Literature (1) Abstracts, journals, patents, and other sources. Practice in conducting library and on-line computer literature searches. One hour of lecture and occasional laboratory sessions. Usually offered every fall. *Prerequisite:* 15.320.

15.520 Advanced Organic Chemistry I (3) Principles of physical organic chemistry. Bonding and conformational analysis; nucleophilic substitution at carbon; elimination and addition reactions; carbene chemistry; and cycloaddition reactions. Usually offered every fall. *Prerequisite:* 15.420.

15.521 Advanced Organic Chemistry II (3) Synthetic and mechanistic aspects of the chemistry of carbonyl compounds. Acylations, alkylations, and other condensations; oxidation and reduction reactions. Application of orbital symmetry correlations to organic reactions. Usually offered every spring. *Prerequisite:* 15.520.

15.522 Interpretation of Spectra (3) Practical interpretation of ultraviolet, infrared, nuclear magnetic resonance, and mass spectra for organic chemists and biochemists. Elucidation of structures and kinetic processes. Usually offered every spring. *Prerequisite:* 15.420.

15.525 Problem Solving in Organic Chemistry (1) Provides experience in solving problems in mechanistic and synthetic organic chemistry for graduate students planning to take comprehensive examinations in organic chemistry. Usually offered every fall. *Prerequisite:* 15.520 and 15.521.

15.546 Thermodynamics and Statistical Mechanics (3) Mathematical techniques, laws, free energy functions, empirical methods for evaluating reaction feasibility; mixtures, solutions, and statistical thermodynamics. Usually offered alternate falls. *Prerequisite:* 15.420.

15.550 Advanced Inorganic Chemistry (3) Electronic structure of atoms, periodic trends, bonding and structure of covalent compounds, electronegativity, bonding and structure of coordination complexes, acids and bases, organometallic chemistry, and bioinorganic chemistry. Usually offered every fall. *Prerequisite:* 15.420.

15.551 Topics in Inorganic Chemistry (3) Molecular symmetry, transition metal spectra, mechanisms of inorganic reactions, boron chemistry, organometallic chemistry, inorganic polymers, bioinorganic chemistry, and energy conversion. Usually offered alternate springs. *Prerequisite:* 15.550.

15.560 Biochemistry I (3) Structures and functions of subcellular components and intracellular transport. Hydrogen bonding. Structures and functions of amino acids, peptides, and proteins. Hemoglobin, allostery, and sickle-cell anemia. Enzyme kinetics and mechanisms. Protein activation in digestion, blood clotting, and the immune response. Membrane structures and functions. Three hours of lecture and one hour of seminar. Usually offered every fall. *Prerequisite:* 15.320.

15.561 Biochemistry II (3) Metabolic principles, bioenergetics and glycolysis. Mitochondrial functions, Krebs cycle, electron transport, and oxidative phosphorylation. Phosphogluconate pathway. Carbohydrate, fatty acid, amino acid, and mononucleotide metabolism. Photosynthesis. Lipid synthesis. Nitrogen fixation. Transmethylation. Introduction to DNA replication, transcription, and translation. Genetic change. Three hours of lecture and one hour of seminar. Usually offered every spring. *Prerequisite:* 15.560.

15.562 Biochemistry I Laboratory (2) Experiments coordinated with the material taught in 15.560. Volumetric analysis, temperature effects on buffers, and computer-assisted data reduction. Amino acid structure determination using C-13 NMR spectroscopy. Peptide sequencing employing paper chromatography. Computer-assisted modeling of protein structures. Blood hemoglobin clinical analysis. Luciferin-luciferase bioluminescence assays of ATP. Spectrophotometric assay and computer-assisted analysis of enzyme kinetics and inhibition of chymotrypsin. One hour of lecture and three hours of laboratory. Usually offered every fall. *Prerequisite:* must be taken concurrently with 15.560.

15.563 Biochemistry II Laboratory (2) Experiments coordinated with the material taught in 15.561. Polarimetric and NMR studies of carbohydrate mutarotation and computer-assisted data analysis. Phospholipid analysis employing enzymatic degradation and high pressure liquid and gas chromatography. Individual projects such as Ames tests for chemical mutagens and carcinogens. One hour of lecture and three hours of laboratory. Usually offered every spring. *Prerequisite:* 15.562 and must be taken concurrently with 15.561.

15.564 Biochemistry III (3) Organization, replication, repair, expression, and movement of procaryotic and eucaryotic DNA. Viruses. Immunoglobulin structure and diversity. Membranes, receptors, and information transfer. Oncogenes. Biotechnology methods and applications of DNA restriction, sequencing, cloning, and probing. Monoclonal antibody production and applications. Usually offered alternate falls. *Prerequisite:* 15.561.

15.570 Computers in Chemistry (3) Introduction to applications of electronic computers in chemistry. Practice in using interactive and batch mode programs. Algorithms, flow charts, and elementary programming in BASIC. Word processing. Communication between main-frame and microcomputers. NMR simulations and use of a Fourier Transform NMR spectrometer. Use of on-line computers including chemical information systems. Three hours of lecture with occasional laboratory sessions. Usually offered alternate falls. *Prerequisite:* 15.320 and 40.280.

15.581 Principles of Toxicology (3) This course is designed to familiarize students with basic principles of how chemicals, drugs, and natural products alter biological systems. Mechanisms and conditions under which harmful effects may occur are emphasized. Also considered are biological and chemical factors that influence toxicity; routes of administration; experimental design; special tests; statistical analysis of data; extrapolation of animal data to man; and regulatory aspects of toxicology. Usually offered every fall. *Prerequisite:* 15.320.

15.590 Independent Reading Course in Chemistry (1-6)

Graduate Courses

15.600 Advanced Physical Chemistry I (3) Kinetic molecular theory, Boltzmann statistics, transport phenomena, quantum topics (radiation, tunneling, superconductivity), partition functions, and elementary statistical thermodynamics. Usually offered every fall. *Prerequisite:* 15.420.

15.601 Advanced Physical Chemistry II (3) Molecular electrical properties, intermolecular interactions, molecular magnetic properties, chemical kinetics (fast reactions emphasized), and class-selected topics. Usually offered every spring. *Prerequisite:* 15.600.

15.608 Special Topics in Physical Chemistry (3) Presentation of current research activity. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 15.601.

15.610 Advanced Analytical Chemistry (3) Modern techniques, including ion-selective electrodes, fluorescence and phosphorescence analysis, atomic absorption spectrometry, far infrared spectroscopy, nuclear magnetic resonance, microwave spectroscopy, nuclear quadrupole spectroscopy, electron and photoelectron spectroscopy, neutron activation analysis, and the use of computers. Usually offered alternate falls. *Prerequisite:* 15.460.

15.618 Special Topics in Analytical Chemistry (3) Presentation of current research activity. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* 15.610.

15.628 Special Topics in Organic Chemistry (3) Woodward-Hoffman Orbital Symmetry Correlation Rules and their application; organic photochemistry; heterocyclic chemistry; applications of NMR to the study of rates of dynamic processes. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* 15.521.

15.632 High Polymer Chemistry (3) Addition and condensation polymerization kinetics, statistics of linear polymers, thermodynamics of solutions, phase equilibria, and characterization of polymers by osmotic pressure, light scattering, viscometry, and gel permeation chromatography, and introductory rheology. Usually offered alternate falls. *Prerequisite:* 15.420.

15.640 Colloid and Surface Chemistry (3) Solid and liquid surfaces, intermolecular interactions, electrical properties of interfaces, foams, colloids, critical surface tension of polymers, and thermodynamics of interfaces. Usually offered alternate springs. *Prerequisite:* 15.420.

15.642 Chemical Kinetics (3) Order and molecularity of reactions. Activated complex theory for elementary reactions. Reactions in solutions and on surfaces. Complex reaction mechanisms. Nonisothermal kinetics. Usually offered alternate falls. *Prerequisite:* 15.420.

15.661 Enzyme Kinetics and Mechanisms (3) Computer-assisted modeling of protein structures. Chemical catalysis. Enzyme kinetics and computer-assisted determination of kinetic parameters. Approximation, distortion, covalent catalysis, general acid-general base catalysis, hydrogen bonding, and hydrophobic and electrostatic effects in enzyme mechanisms. Physical studies of enzymes. Isotope effects, pH effects, chemical modification, affinity labeling, and transition-state analog inhibition in studies taken from the current literature. *Prerequisite:* 15.561.

15.664 Chemistry of Carbohydrates (3) Elucidation of chemical structures, conformations, and reactions of monosaccharides. When pertinent, the biological activity of a given carbohydrate is considered. Usually offered alternate falls. *Prerequisite:* 15.560.

15.667 Current Biochemical Literature (1) Consideration of articles from recent issues of biochemical journals. This course is intended to foster discrimination in selecting papers, an analytical approach to reading, and the ability to retain the critical elements presented. These abilities should be of particular value in preparing for comprehensive examinations. May be repeated for credit but not within the same term; content must be different. Usually offered every spring. *Prerequisite:* 15.564.

15.680 Chemical Mutagens and Carcinogens (3) Metabolic activation and deactivation, and mechanisms of action of polycyclic aromatic hydrocarbons, aromatic amines, azo and N-nitroso compounds, nitro aromatics, natural products, and alkylating agents. Short-term testing methods. Usually offered every spring. *Prerequisite:* 15.561; also, 15.581 and 15.564 are recommended.

15.681 Bioinorganic Chemistry (3) Metals in biochemistry, with emphasis on metal toxicity and metabolism of toxicants. Natural abundance, uptake, and storage. Diseases of deficiency and excess. Iron and copper in oxygen carriers and redox enzymes. Cobalt and group transfers. Zinc metalloenzymes. Nitrogenase. Group Ia and IIa metals. Toxic metals. Usually offered alternate falls. *Prerequisite:* 15.320; also, 15.550 and 15.560 are recommended.

15.682 Toxicological Testing (3) The course emphasizes toxicological testing procedures including fast tests such as the Ames Test and other short-term toxicological methods that are under development. The theoretical basis for the tests, as well as the theoretical and experimental limitations, is included. Usually offered every spring. *Prerequisite:* 15.320. Concurrent registration in 15.680 is recommended.

15.690 Independent Study Project (1-6)

15.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* completion of nine credit hours of graduate course work in chemistry and permission of the coordinator of Cooperative Education.

15.700 Seminar in Chemistry (1) Selected topics. Preparation and presentation of a paper of professional quality. Usually offered every fall and spring. *Prerequisite:* 15.507 and twelve graduate credit hours of chemistry.

15.797 Master's Thesis Research (1-6)

15.799 Doctoral Dissertation Research (1-20)

Communication

Note: The program track or tracks of each undergraduate professional course are noted in the course descriptions below: (BJ) Broadcast Journalism, (PJ) Print Journalism, (PC) Public Communication, (VM) Visual Media, Communication and Media Studies courses are identified by (MS). Undergraduate Courses

17.105 Visual Literacy /A 1:1 (3) Introduces students to ways of understanding visual images in a variety of con-

texts: art, media (including film, photography, television, graphic design), and drawing. Students learn about aesthetics as well as the production aspects of visual images; they discover intuitive dimensions of seeing as well as the major influence of culture on visual symbols and constructs. *Note:* not open to students who have taken 17.202 Visual Literacy.

17.199 Washington Journalism Institute for High-School Students (2) A course to familiarize highly qualified high-school students with the fundamentals of news writing, types of newspaper stories, newspaper editing, and journalistic ethics. In addition, students are introduced to the workings of the federal government and to university life.

17.200 Writing for Mass Communication (3) (BJ, PJ, PC, VM) A course stressing basic writing techniques for informing a mass audience. Intensive practice in writing for mass media. Required of all school majors. Usually offered every term. *Prerequisite:* 23.100, 23.101 or equivalent courses, typing skill, and permission of the school.

17.201 Introduction to Interpersonal Communication (3) (PC) Principles of interpersonal communication: communication models and systems; the role of perception in communication; verbal and nonverbal message elements; and communication barriers, breakdowns, and methods of improvement. Classroom exercises in interviewing techniques, small-group problem solving, and public speaking. Required for all public communication majors. Usually offered every term. *Prerequisite:* permission of the school.

17.203 American Journalism (3) (BJ, PJ) The course capsulizes the world of journalism by looking at the history of the craft and exploring current issues such as the power of newspapers and television, legal and ethical standards required for reporters, journalism as a social force, and the political impact of radio, television, newspapers, and news magazines. Usually offered every spring. *Prerequisite:* permission of the school.

17.205 Understanding Mass Media /S 4:2 (3) Building on students' individual and collective experiences of mass media (print, film, radio, and television) this course analyzes American media institutions: their development, fundamental purpose, and structure; the economic and political controls they face; and their effect on us as individuals. Usually offered every term. *Prerequisite:* for General Education credit: 53.110 or 65.100 or 57.105. *Note:* not open to students who have taken 17.100 Introduction to Mass Media.

17.270 How the News Media Shape History /S 2:2 (3) The impact that the print and broadcast news media have had on America. The role and value of a free press, always powerful and usually responsible. Topics range from how radical writers helped start the American Revolution to how today's reporters influence contemporary political events. Usually offered every spring. *Prerequisite:* for General Education credit: 29.100 or 53.105.

17.310 Public Speaking (3) (PC) Principles of effective speaking. Practice in preparing and presenting several types of public address. Usually offered every term. *Prerequisite:* permission of the school.

17.320 Reporting (3) (BJ, PJ) Fundamentals of news gathering, news writing, and news judgment for all media; study of news sources, fieldwork, research, and interview techniques. Usually offered every term. *Prerequisite:* core courses or permission of the school.

17.322 Editorial Policies and Methods (3) (PJ) Instruction and practice in editing. Copy editing, wire editing, and editorial judgment, deadline writing, and newspaper design and layout. Usually offered every term. *Prerequisite:* core courses.

17.325 Feature Article Writing (3) (PJ) Study of feature articles for newspapers, syndicates, magazines, and specialized publications; practice in research, interviewing, and writing, marketing and publication of articles. Usually offered every term. *Prerequisite:* core courses.

17.333 Fundamentals of TV and VTR (3) (BJ) Procedures and techniques used in producing television news in the field and in the studio. Students are introduced to basics of lighting, audio techniques, video graphics, camera operations, field production and videotape editing. Laboratory. Usually offered every term. *Prerequisite:* core courses.

17.346 Audio-Visual Communication (3) (PC) Communicating through modern audio-visual media. Emphasis on understanding the media as well as the message. Students prepare materials and gain experience with audio-visual devices and systems. Usually offered every term. *Prerequisite:* core courses.

17.385 Broadcast Journalism I (3) (BJ) Writing, reporting, and editing news for radio. Production of minidocumentary. Laboratory. Usually offered every term. *Prerequisite:* 17.320.

17.390 Independent Reading Course in Communication (1-6)

17.392 Cooperative Education Field Experience (3) See description under Cooperative Education in this publication

17.401 Legal Aspects of Communication (3) (MS) Current legal problems. Theory of controls in journalism, visual communication, television, and radio. Libel suits, copyrights, and infringement. No previous knowledge of law required. Usually offered every term. *Prerequisite:* core courses.

17.425 Public Affairs Reporting (3) (PJ) Students are introduced to the various reporting techniques involved in writing about local and federal governmental operations. Students write local and federal government news stories. Usually offered every term. *Prerequisite:* 17.320.

17.428 Broadcast Journalism II (3) (BJ) Writing, reporting, editing, and producing news for television. Production of television field reports and newscasts on closed circuit television. Laboratory. Usually offered every term. *Prerequisite:* 17.333 and 17.385.

17.430 Basic Photography (3) (VM, PJ, PC) Introductory technical and aesthetic principles of photography. Basic principles of the camera and black and white laboratory work. Usually offered every term. Meets with 17.630. *Prerequisite:* 17.105 or permission of the school.

17.431 Basic Film and Audio Production (3) (VM) Fundamental technical and aesthetic considerations involved in visual media production. Through projects in audiotape, 35mm slides, and Super 8 film that are critiqued in class, students learn the principles and procedures of sound recording and editing, cinematography, editing visual images, and preproduction planning. Meets with 17.631. Usually offered every term. *Prerequisite:* 17.105 or permission of the school

17.432 Television Field Reporting (3) (BJ) Advanced television news production. Students write, tape, edit, and

produce field reports and a television minidocumentary. Meets with 17.632. Usually offered every term. *Prerequisite:* permission of instructor.

17.433 Broadcast Delivery (3) (BJ) Concentrated analysis of and training in the delivery of news on radio and television. All facets of broadcast news styles and performance are examined and developed. Obstacles to effective communication of news by the voice are identified, and remedies are attempted. Meets with 17.633. Usually offered every term. *Prerequisite:* permission of the school.

17.434 Location Film and Video Production (3) (VM) Teaches 16mm silent and small-format video location production. Emphasis is on planning, treatment and shot scripting, development of scene and character, location lighting, refinements of continuity, location sound recording, and visual design. Usually offered every term. *Prerequisite:* 17.430 and 17.431.

17.435 Introduction to Studio Television (3) (VM) A hands-on laboratory course to teach basic studio operation and production skills, including directing, lighting, crewing, engineering, and production planning. Students are required to work on a variety of studio formats. Usually offered every term. *Prerequisite:* 17.105 or permission of school.

17.436 Public Relations (3) (PC) The nature and practice of public relations in organizations. Employee relations, media relations, community relations, and relations with other publics. Usually offered every term. *Prerequisite:* core courses.

17.437 Public Relations Media (3) (PC) Principles and practice in the major forms of media used in public relations: news releases, broadcast publicity and public service announcements, planning and publicity for special events, feature stories, house publications, and institutional advertising. Usually offered every term. *Prerequisite:* core courses.

17.446 Public Relations Case Studies (3) (PC) Case studies and typical public relations problems in industry, labor, education, government, social welfare, and trade associations. Planning and preparation of communications materials for various media; application of public relations techniques. Usually offered every term. *Prerequisite:* 17.436.

17.450, 17.451 Washington Journalism Semester Seminar I, II (4), (4) 17.450 and 17.451 are taken together, and explore journalism as it exists and is practiced in Washington, D.C. The seminar studies the people, institutions, and issues of Washington journalism with weekly guest speakers, field trips, readings, review sessions, and lectures. These courses are not available to communication majors. Usually offered every fall and spring. *Prerequisite:* admission to Washington Journalism Semester.

17.452 Washington Journalism Semester Internship (4) Professional communication work in an off-campus organization, providing the student with experience not available in the curriculum. Usually offered every fall and spring. *Prerequisite:* admission to Washington Journalism Semester.

17.456 Film I (3) (VM) Techniques of 16mm sound-film production: lighting, sound recording, cinematography, and post production. Usually offered every term. Meets with 17.656. *Prerequisite:* 17.434 and 17.482.

17.464 Studio Television I (3) (VM) A course for students who wish to develop their skills in studio production. The

course focuses on studio formats that employ talent, including spots, information tapes, and short dramatic pieces. Meets with 17.664. Usually offered every term. *Prerequisite:* 17.434, 17.435, and 17.482.

17.470 Organizational Communication (3) (PC) Communication practices in complex organizations. Formal and informal communication networks and problems associated with each. Forms of communication used in organizations. Field research project in a Washington-area organization. Usually offered every fall. *Prerequisite:* permission of school.

17.472 Nonverbal Communication (3) (PC) Current research on the influence of biorhythms, artifacts, facial expressions, gestures, posture, space, time, and touch on human interaction. Opportunities for analysis and application of learned principles through in-class exercises, simulations, videotaped sessions, and off-campus field research. Usually offered every fall. *Prerequisite:* permission of school.

17.475 Group Communication Management (3) (PC) Current research on leadership, problem solving, decision making, deviant behavior, communication networks, and discussion techniques in small groups. Opportunities for application in videotaped sessions, role-playing exercises, and field research. Usually offered every term. Recommended in junior year. *Prerequisite:* permission of school.

17.480 Public Communication Research (3) (PC) Application of survey research methods to selected problems in public relations. Preparation of a research project for a Washington-area client. Usually offered every term. *Prerequisite:* senior standing and permission of school.

17.482 Writing for Visual Media (3) (VM) Techniques of writing scripts for film and television productions. Students write treatments and screenplays for television, proposals for public service announcements, commercials and scripts for nontheatrical film and video productions. Usually offered every term. *Prerequisite:* 17.200 and 17.431.

17.486 Video I (3) (VM) An intermediate course in field video production. Topics include script, directing, production skills (camera, light, and sound), post-production, and technical developments. Students work independently and in groups. Meets with 17.686. Usually offered every term. *Prerequisite:* 17.434 and 17.482.

17.487 Advanced Production (3) (VM) An advanced course in field production. Students produce and direct projects of professional quality, drawing from the class as production crew. Critiques are structured as seminars. In addition, the course includes critical analysis of relevant films, videotapes, readings, and special events. Meets with 17.687. May be repeated for credit but not within the same term; topic must be different. Usually offered every term. *Prerequisite:* 17.456 or 17.464 or 17.486 or permission of instructor.

17.490 Independent Study Project in Communication (1-6)

17.491 Senior Internship (3) (BJ, PJ, PC, VM) Professional communication work in an off-campus organization appropriate to the student's school program, providing the student with experience not available in the curriculum. Usually offered every term. *Prerequisite:* senior standing, recommendation of adviser, and approval of the internship director; a grade-point average of 2.50 is required in both the major and overall.

Graduate and Advanced Undergraduate Courses

17.502 Investigative Journalism (3) (MS) Introduces students to the history, purposes, power, and responsibilities of investigative journalism. Also introduces students to the specialized reporting and interviewing techniques of investigative reporting and requires students to develop these skills while participating in a group investigative journalism project. Usually offered every spring. *Prerequisite:* 17.320.

17.503 Mass Media and Society (3) (MS) The role of newspapers, magazines, radio, television, and motion pictures in society. Usually offered every term. *Prerequisite:* permission of the school.

17.508 The Media and Government (3) (MS) The president and the press, other Washington press corps-official relations, the quality of government news reporting and its effect on policy, issues of government information policy, control of the media, and journalists' First Amendment rights. Usually offered every spring. *Prerequisite:* permission of instructor.

17.509 Politics and the Media (3) (MS) The role of the mass media in the electoral process. Includes examination of candidates' use of the media to get elected and press and television reporting and analysis of political campaigns. Usually offered every term. *Prerequisite:* permission of the school.

17.511 History of Documentary Film (3) (MS) Development of the documentary tradition in film from 1900 to 1970. Critical analysis of its use in modern society. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered alternate falls. *Prerequisite:* permission of the school.

17.512 Television Documentary (3) (MS) A study of the intersection of the documentary form in film and television. A brief overview of the history of the documentary film with a concentration on the manner in which it was shaped by the advent of television. A concentrated study of network documentary production in the 1950s and 60s, with an emphasis on the *cinéma vérité* movement, leading to a study of how film and television were affected by *cinéma vérité* in the 1970s and 80s. Concluding unit is on the video documentary. Usually offered alternate falls. *Prerequisite:* permission of the school.

17.513 Business of Film (3) (MS) Nontheatrical film marketing and production management. Preliminary research and development of the film proposal; preparation of treatments, contracts, and budgets; cost analysis of production; and relationships between aesthetics and expenses. Use of Washington as a laboratory for marketing experience, including actual client contact. Usually offered every spring. *Prerequisite:* permission of the school.

17.514 Censorship in Media (3) (MS) A survey of the history of censorship in the U.S. today in the newspapers, magazines, radio, movies, publishing, and television. International comparisons are drawn, and the problem of censorship in the schools is given special attention. Usually offered every fall. *Prerequisite:* permission of the school.

17.516 Special Topics in Visual Media and Culture (3) (MS) Rotating topics in the analysis of visual media and culture from a variety of perspectives, such as film and propaganda, film and ideology. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* permission of the school.

17.521 Editorial Writing (3) (PJ) Supervised writing of editorials and opinion columns on current subjects; analysis of editorials and other commentary; editorial page policies and practices. Usually offered every spring. *Prerequisite:* permission of the school.

17.523 Intermediate Photography (3) (VM) A refinement of photographic skills emphasizing a synthesis of craft and expression. Photojournalism is usually offered in the fall, Fine Arts Printing in the spring. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 17.430 or permission of instructor.

17.525 Advanced Photography (3) (VM) Extensive individual projects, critiques, and professional guest speakers. In-depth exploration of specific themes and techniques based on the goals of each student, and leading toward a professional-level portfolio. May be repeated for credit but not in the same term; topic may be the same. Usually offered every spring. *Prerequisite:* 17.523 or permission of instructor.

17.527 History of Photography (3) (MS) The history of photography and its interrelationships with other visual arts and media. Emphasis is on modern photographers and on viewing work in Washington galleries and museums. Usually offered every fall. *Prerequisite:* permission of the school.

17.529 Large-Format Photography and Studio Lighting (3) (VM) A professional skills course which introduces the 4x5 view camera and studio electronic flash. Both sections are integrated and explore the unique characteristics of the equipment through extensive technical and shooting assignments. Usually offered every fall. May be repeated for credit but not within the same term; topic must be different. *Prerequisite:* 17.523 or permission of instructor.

17.530 Broadcast Operations and Management (3) (MS) The technical and historical development of American broadcasting, the managerial problems that affect operations of a broadcasting station, and the functional structure of American broadcasting. Usually offered every fall. *Prerequisite:* permission of the school.

17.531 International Communications Systems (3) (MS) Communication of news and opinion among nations and under varying social, political, and economic systems. Uses of mass media in national development; patterns of mass communication throughout the world. Usually offered every term. *Prerequisite:* permission of the school.

17.532 Publication Layout and Design (3) (PC) Layout, typography, design, and printing in planning and producing newspapers, magazines, books, brochures, and folders. Usually offered every term. *Prerequisite:* permission of the school.

17.535 Special Topics in News Media (3) (MS) Alternating topics in the analysis and working methods of specialized areas of the news media. *Prerequisite:* junior standing and permission of the school.

17.538 Contemporary Media Issues (3) (MS) Examination of investigative reporting, the "new journalism," and other controversial developments affecting the news media. Assessment of how well the press informs the public. Usually offered every fall. *Prerequisite:* permission of the school.

17.540 American Newspapers (3) (MS) Survey of contemporary newspapers. Critical analysis of their editorial and advertising content. Alternative newspapers. Usually offered every fall. *Prerequisite:* permission of the school.

17.542 American Magazines (3) (MS) Survey of contemporary popular magazines. Critical analysis of their editorial and advertising content. The effect of magazines on American society. Usually offered every spring. *Prerequisite:* permission of the school.

17.545 Business and Economic Journalism (3) (MS) Current economic and business issues and their coverage by the news media. The performance of the media in providing the necessary depth of business and economic reporting. How journalists can improve their knowledge and skill. Usually offered every spring. *Prerequisite:* permission of the school.

17.548 Speech Writing (3) (PC) Principles of speech writing. Practical field experience in preparation of speeches for a Washington-area client. Usually offered every fall.

17.558 History of Motion Pictures I (3) (MS) Origins and development of the theatrical feature-length fiction film from the nineteenth century to 1940. International survey from an American viewpoint. Films screened, discussed, and criticized. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered every fall. *Prerequisite:* permission of the school.

17.559 History of Motion Pictures II (3) (MS) History and development of the theatrical feature-length fiction film from 1940 to the present. International survey from an American point of view. Films are screened, discussed, and criticized. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered every spring. *Prerequisite:* permission of the school.

17.561 Advanced Writing for TV/Film (3) (VM) The course emphasizes entertainment television and theatrical film scripting. Students are expected to write either a feature film script or television pilot script. Students also read and report in class on the works of major screenwriters. Usually offered every term. May be repeated for credit but not within the same term; topic must be different. *Prerequisite:* 17.482/682 or 23.402/702 or permission of instructor.

17.570 Film Production (3) A practical course in location 16mm sound film production. Included are basic strategies, lighting, sound recording, camera techniques, editing, laboratory procedures, and budgeting. Participants produce a short film as a class project. Not open to School of Communication degree students. Usually offered every summer. *Prerequisite:* junior standing or above and permission of Summer Film and Video Institute director.

17.571 Video Production (3) A comprehensive introduction to the technical and aesthetic aspects of 3/4 inch location videotape production. Skills in scripting, production, and editing are developed. Production emphasis on lighting, sound, talent directions, and camera technique. Small-group production of two video projects. Not open to School of Communication degree students. Usually offered every summer. *Prerequisite:* junior standing or above and permission of Summer Film and Video Institute director.

17.590 Independent Reading Course in Communication (1-6)

17.599 New Communication Technology (3) (MS) The latest developments in, and the social and legal issues of, communication technology, including text-editing computer systems, word processors, cable, satellites, videotext, and teleconferencing. Usually offered every spring. *Prerequisite:* permission of the school.

Graduate Coursea

Note that in courses for which there are both a .400 and .600 level, additional work is required of students at the .600 level.

17.601 Legal Aspects of Communication (3) Current legal problems. Theory of controls in journalism, visual communication, television, and radio. Libel suits, copyrights, and infringement. No previous knowledge of law required. Usually offered every fall. *Prerequisite:* permission of school.

17.621 Advanced Copy Editing (3) Students edit news and feature stories. Emphasis is on the dynamics of stories and the refinement of stories for publication. Usually offered every fall. *Prerequisite:* admission to the graduate program in print journalism.

17.624 Principles and Practice of Journalism (3) An intensive introduction to news reporting and news writing. Includes extensive field work reporting on local government and federal government. Designed to prepare non-journalists for the full-time graduate program in journalism and public affairs. Usually offered every summer. *Prerequisite:* permission of instructor and admission to graduate program in journalism and public affairs.

17.630 Basic Photography (3) (VM, PJ, PC). Introductory technical and aesthetic principles of photography. Basic principles of the camera and black and white laboratory work. Meets with 17.430. Usually offered every term. *Prerequisite:* permission of program director.

17.631 Basic Film and Audio Production (3) Fundamental technical and aesthetic considerations involved in visual media production. Through projects in audiotape, 35mm slides, and Super 8 film that are critiqued in class, students learn the principles and procedures of sound recording and editing, cinematography, editing visual images, and preproduction planning. Meets with 17.431. Usually offered every term. *Prerequisite:* permission of the program director.

17.632 Television Field Reporting (3) Instruction in production of television news packages. Merging of script, videotape, and graphics into the final product. Supervision of shooting and editing. Meets with 17.432. Usually offered every term. *Prerequisite:* permission of the graduate program director.

17.633 Broadcast Delivery (3) The effective delivery of news on radio and television. Examination and analysis of individual student problems with extensive practice sessions to solve them. Meets with 17.433. Usually offered every term. *Prerequisite:* permission of the graduate program director.

17.634 Location Film and Video Production (3) Teaches 16mm silent and small-format video location production. Emphasis is on planning, treatment and shot scripting, development of scene and character, location lighting, refinements of continuity, location sound recording, and visual design. Students with prior experience may emphasize either film or video. Usually offered every term. *Prerequisite:* permission of the program director.

17.635 Introduction to Studio Television (3) A hands-on laboratory course to teach basic studio operation and production skills, including directing, lighting, crewing, engineering, and production planning. Students are required to work on a variety of studio formats. Usually offered every term. *Prerequisite:* permission of the program director.

17.636 Washington Reporting (3) Field reporting of Washington and suburban community affairs. In-depth reporting, feature writing, and editing. Usually offered every spring and summer. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.640 Public Communication Principles (3) Formal and informal models used to define, formulate, and design the tasks involved in the creative and management activities of the public communication practice; ethics; public, social, and mass models of communication. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

17.642 Public Communication Management (3) The principles and functions of public-communication administration and the application of project-centered techniques. Strategies and implementation of tactics in a campaign setting; principles of planning, organizing, staffing, leading, and controlling; issues management. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

17.644 Public Communication Writing (3) Analysis of writing models in a variety of styles and media. Exploration of the relationship between audience expectations and communication style and content. Practical experience in the preparation of press releases, brochure copy, and newspaper and magazine articles. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

17.646 Public Communication Production (3) Advanced writing, programming, and production, involving various forms of contemporary media including commercial and in-house radio and direct mail, as well as newspapers, newsletters, and magazines. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

17.656 Film I (3) Techniques of 16mm sound-film production: lighting, sound recording, cinematography, and post production. Meets with 17.456. *Prerequisite:* 17.634, 17.635, and permission of graduate program director.

17.664 Studio Television I (3) A course for students who wish to develop their skills in studio production. The course focuses on studio formats that employ talent, including spots, information tapes, and short dramatic pieces. Meets with 17.464. Usually offered every term. *Prerequisite:* 17.634, 17.635, and 17.682.

17.682 Writing for Visual Media (3) Techniques of writing scripts for film and television productions. Students write and criticize assignments. No production is involved in this course. Usually offered every fall. *Prerequisite:* permission of graduate program director.

17.686 Video I (3) An intermediate course in field video production. Topics include script, directing, production skills (camera, light, and sound), post-production, and technical developments. Students work independently and in groups. Meets with 17.486. Usually offered every term. *Prerequisite:* 17.634, 17.635, and 17.682.

17.687 Advanced Production (3) An advanced course in field production. Students produce and direct projects of professional quality, drawing from the class as production crew. Critiques are structured as seminars. In addition, the course includes critical analysis of relevant films, videotapes, readings, and special events. Meets with 17.487. May be repeated for credit but not within the same

term; topic must be different. Usually offered every term. *Prerequisite:* 17.656 or 17.686 and permission of graduate program director.

17.690 Independent Study Project in Communication (1-6)

17.691 Graduate Internship (3) Professional communication work in an off-campus organization appropriate to the student's school sequence, which provides experience not available in the curriculum. Usually offered every spring and summer. *Prerequisite:* open to graduate students who have completed with distinction most or all of their sequence requirements. Recommendation of adviser and approval of internship director.

17.692 Cooperative Education Field Experience (3-6)
See description under Cooperative Education in this publication.

17.701 Graduate Seminar in Film Theory and Criticism (3) The seminar focuses on the development of film theory and criticism. The work of Arnheim, Eisenstein, Kracauer, Bazin, Mitry, and Metz are studied as primary sources. The relationship between theory and production is examined and applied to analysis of specific films. Usually offered every spring. *Prerequisite:* full-time registration in the graduate program in Film and Video.

17.702 Master's Nonthesis Projects Seminar (1-6) Independent work toward project in lieu of thesis for students in the graduate Film and Video Program. Course involves regular critiques and discussion. Students usually enroll for two semesters, but may enroll for six credits in one semester with permission. Consult graduate program director for registration and participation requirements. May be repeated for credit within the same term; topic may be the same. Usually offered every term. *Prerequisite:* permission of faculty adviser and admission to the graduate program in Film and Video.

17.710 Seminar in Public Affairs (3) Current issues in the making of public policy in Washington with emphasis on the role of the media. Includes a major in-depth reporting project. Usually offered every fall. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.720 Seminar in Journalism (3) Examines ethical and economic issues affecting the press and initiates studies to add to the literature of media criticism. Students become acquainted with team journalism and magazine writing through in-depth projects focusing on press issues. Usually offered every spring. *Prerequisite:* permission of faculty adviser and admission to graduate program in journalism and public affairs.

17.721 Broadcast News I (3) Problems, policies, and practices of the broadcast news media. Emphasis on radio news writing, production, editing, reporting, and broadcasting. Production of audio minidocumentaries. Usually offered every fall. *Prerequisite:* permission of faculty adviser and admission to graduate program in journalism and public affairs.

17.722 Broadcast News II (3) Guidance and training in television news, including producing, writing, and editing for TV newscasts; reporting in the field and production of news packages. Group research project. Usually offered every spring. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.724 Reporting of Public Affairs (3) Advanced training in writing news for publication with emphasis on coverage of issues in federal-metropolitan Washington. Conducted with 17.710. Usually offered every fall. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.735 Communication Theory (3) Communication as an interactive social process. Relevance of social-science theory to the practice of public communication. Implications of public communication operations for the public interest. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

17.738 Research Methods in Communication (3) Survey of research in public communication, with particular attention paid to the methodologies employed. Emphasis on the understanding and appropriate selection of quantitative techniques. Usually offered every fall. *Prerequisite:* permission of the director of the public communication program.

17.741 Communication Processes (3) The general processes of communication as applied to public communication. Interorganizational theory, persuasion, issue identification and analysis, conflict-cooperation assessment. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

17.744 Public Communication Seminar (3) Analysis of issues relevant to public communication such as current trends in audience analysis, professional and ethical responsibilities, political trends, and media-government controversies. A variety of perspectives are presented. Usually offered every spring. *Prerequisite:* permission of the director of the public communication program.

17.797 Master's Thesis Seminar (1-3) May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

Economics

Undergraduate Courses

19.100 Macroeconomics /S 4:1 (3) An introduction to the basic principles of macroeconomics, stressing topics of national income, unemployment, inflation, economic growth, depression, prosperity, international economics, economic development, alternative approaches to economics, and current issues and controversies. Usually offered every term. *Note:* not open to students who have taken 19.101 Introduction to Economics I (Macro).

19.110 The Global Majority /S 3:1 (3) Introduction to the plight of less-developed countries, to alternative paths of development, and to the relationships between the more-developed and less-developed countries. The central theme of economic development is based on elementary economic theory. Equally important, human dimensions of development are emphasized through the use of novels and films from less-developed countries. Usually offered every term.

19.200 Microeconomics /S 4:2 (3) The basic principles of microeconomics and their applications. Supply and demand, operation of markets, consumer and enterprise

behavior, competition and monopoly, income distribution, discrimination, and alternative approaches to economics. Usually offered every term. *Prerequisite for General Education credit:* 19.100. *Note:* not open to students who have taken 19.102 Introduction to Economics II (Micro).

19.300 Price Theory (3) Theory of relative prices of commodities and productive services under perfect and imperfect competition. Theory of the firm and consumer demand. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.301 Income Theory (3) Concepts and theory of national income determination, employment, and economic growth. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.302 Comparative Economic Systems (3) Analysis of different theoretical models of capitalist and socialist economies to understand the differences in their dynamics and effects on human well-being. Specific case studies of the differences between French, British, German, Swedish, and Japanese capitalism and between Soviet, Yugoslav, Chinese, Cuban, and Vietnamese socialism. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.303 Sex Roles in Economic Life (3) Analysis of the causes and effects of women's economic status. For economics students, to look in depth at a particular application of labor economics; for women's studies students and majors in the other social sciences, to bring the discipline of economics to bear on their study of women's place in society. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.304 Labor Economics (3) The application of economic theory to current labor problems, domestic and foreign. Problems include wage theory and wage differentials, training policy, poverty, unemployment and underemployment, discrimination, productivity, industrialization, and union policies. Usually offered every term. *Prerequisite:* 19.100, 19.200, and 19.300.

19.305 Quantitative Economics (3) Graphs, applications of calculus to economic problems and of linear algebra to input-output models, and introductory concepts of dynamic economic models. Usually offered every term. *Prerequisite:* 19.100, 19.200, and 41.211 or 41.221.

19.306 Money and Banking (3) The role of money and credit in the economy. The structure and operations of commercial banks. Federal Reserve System and processes and instruments of monetary policy. Nonbanking financial institutions and the structure of financial markets. Elements of monetary theory. "Flow of funds" and its use in monetary analysis. Usually offered every term. *Prerequisite:* 19.100.

19.307 Political Economy of Economic Development (3) Resource constraints on world growth. The colonial legacy. Market and nonmarket growth models. New strategies of development. Development problems and country emphasis vary with the semester. Usually offered every term. *Prerequisite:* 19.100.

19.308 History of Economic Development (3) Historical investigation of economic development using Europe and the Third World as case studies. Emphasis is on economic theory to illuminate historical development. Usually offered every fall. *Prerequisite:* 19.100 and 19.200.

19.309 Public Economics (3) The theory of taxation, public expenditure, and fiscal policy. Comparison of fiscal institutions in the United States and abroad. Government

approaches to income redistribution and poverty; negative income tax, family allowances, etc. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.310 Introduction to Econometrics (3) Review of the theory of economic statistics and statistical techniques. Emphasis on applying statistical models to economic data. Regression analysis and estimation of economic models. Topics include violations of the basic assumptions of the regression model, dummy variables, and analysis of variance. Index numbers and time series analysis. *Prerequisite:* 19.100, 19.200, and 42.202.

19.311 International Economics /S (3) Introduction to the economics of international trade and finance. Topics include why countries trade; commercial trade policies and their effects; balance of payments and the economics of foreign exchange markets; the operation and effects of fixed and flexible exchange rates. *Prerequisite:* 19.100 and 19.200.

19.312 Industrial Organization (3) Historical and contemporary analysis of industrial market structures and of the behavior of business firms in the United States. Topics include the rise of large corporations, monopoly power and its effects on economic and social welfare, control over large corporations, and governmental regulation of business. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.315 Urban Political Economy (3) Economic functions of cities, pollution, metropolitan decentralization, urban growth and development, transportation, urban form and structure, housing markets and discrimination, land-use patterns, urban renewal, local government finance, and poverty. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.317 Political Economy (3) Analysis of political economic theories including Veblen, institutionalists, neo-Ricardians, and modern Marxist and American radical dissenters from orthodox neoclassical economic theory, and application of those theories to problems, emphasizing the interdependence of political, economic, and social forces in contemporary societies. Usually offered every term. *Prerequisite:* 19.100.

19.319 The Economic Development of the U.S. (3) The nature and sources of economic growth, the institutional transformation associated with economic development, and the social and economic consequences of economic change in the U.S. from the colonial times to the present. Usually offered every spring. *Prerequisite:* 19.100 and 19.200.

19.320 History of Economic Ideas (3) Exposition and analysis of development of economic theory. Emphasis on tracing evolution of economic theories out of specific historical contexts. Major figures and schools in economic thought from Adam Smith to the present. Attention given to the significance of having a separate body of thought called economics. *Prerequisite:* 19.100.

19.322 Marxist Economics (3) Marxist methodology. The labor theory of value, accumulation, and crises. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

19.325 Social Choice and Economic Justice (3) Conservative, liberal, and radical normative theories. Conflicts between efficiency, equity, and liberty. Major contemporary writers on the "just economy." Institutional constraints, the role of the market, voting paradoxes, and the nature of social choice. Concepts of economic rational-

tly, Economic Justice and contemporary policy. Usually offered every fall. *Prerequisite:* 19.200.

19.371 International Economics: Trade (3) Theories of international trade and competitiveness; the effects of trade on the economies of importing and exporting countries; analysis of the effects of tariffs and quotas and other nontariff barriers. Other topics include multinational corporations; trade and development; customs, unions, and theory of the second best. Usually offered every fall. *Prerequisite:* 19.300.

19.372 International Economics: Finance (3) Determination of income, employment, and inflation in open economies. International impact of monetary-fiscal policies under fixed and flexible exchange rates. Theories of exchange-rate determination. International debt and recycling problems. International monetary organization and reform. Usually offered every spring. *Prerequisite:* 19.301 or 19.306.

19.379 Economics of Energy, Resources, and Environment (3) An introduction to the methods of establishing and evaluating current environmental policy, stressing the trade-off between resource extraction and development on the one hand and environmental quality on the other. Public policy is analyzed within the confines of economic growth, energy development, and environmental amenities. Designed for both majors and nonmajors. Usually offered every fall. *Prerequisite:* 19.300.

19.390 Independent Reading Course in Economics (1-6)

19.391 Washington Economic Policy Semester Internship (4) Experience in pursuing directed research with an organization directly involved in the field of economic policy. Students must also be enrolled in 19.393 and 19.394. Usually offered every term.

19.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

19.393, 19.394 Washington Economic Policy Semester Seminar I, II (4), (4) 19.393 and 19.394 are taken together, and involve intensive examination of economic policy making in Washington. Encompasses theoretical analysis of economic problems, extensive readings, on-site discussions with economic policy decision makers, preparation of papers, and presentation of alternative paradigms used to understand economic policy. Usually offered every term.

19.398 Honors, Junior Year I (1-6)

19.399 Honors, Junior Year II (1-6)

19.490 Independent Study Project in Economics (1-6)

19.491 Internship (1-6) Usually offered every term.

19.498 Senior Honors I (3)

19.499 Senior Honors II (3)

Graduate and Advanced Undergraduate Courses

19.500 Price Theory (3) Theory of resource allocation and price system. Theory of demand, production, and distribution. Market structure and performance. Master's section usually offered every term. Ph.D. section usually offered in the fall. Screening exam. *Prerequisite:* 19.505 (which may be taken concurrently) and 19.300 or 19.603, or permission of department.

19.501 Income Theory (3) Keynesian model of income determination. Consumption, investment, and interest rate theories. Keynesian and classical systems compared. Usually offered every term. *Prerequisite:* 19.505 (which may be taken concurrently) and 19.301 or 19.603, or permission of department.

19.504 Economic Thought (3) Major figures in the history of economic thought, their social and economic thought and tools of analysis they created. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.505 Quantitative Analysis of Economic Models (3) Comparative static and comparative dynamic analysis of linear and nonlinear economic models. Usually offered every fall. *Prerequisite:* 41.221 or equivalent.

19.507 American Economic Development (3) The pace and structure of economic growth, the institutional transformations involved in economic development, and the social and economic consequences of economic change in the United States since 1600. Focus is on a variety of causal models and methods for explaining economic and institutional change. *Prerequisite:* 19.100 and 19.200.

19.508 European Economic Development (3) Origins and development of capitalism in the Western world, especially in Britain. Emphasis on economic theory to illuminate historical development. Usually offered every fall. *Prerequisite:* permission of department.

19.510 Cost Benefit and Planning (3) Theoretical, methodological, and empirical frameworks in the estimation of direct and indirect costs and benefits of development projects in the context of overall and sectoral planning activities; technical, financial, economic, institutional, and political analyses used to assess the validity of assumptions in project design and execution. Relationship between projects and policies, including sectoral, environmental, and budget impacts. Usually offered every spring. *Prerequisite:* 19.500 and 19.501.

19.511 Theory of Political Economy I (3) An analysis of the methodology of political economy. Value theory, the labor process, alienation, accumulation, and reproduction. Usually offered every fall. *Prerequisite:* 19.521 or taken concurrently.

19.512 Comparative Economic Systems (3) Three worlds of development—advanced market, advanced non-market, and developing areas. Meaning of economic systems and approaches to their study. Organized primarily around policy makers and their decisions, rather than around ideology or ownership, with emphasis on national goals and policy measures designed to achieve them. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.521 Mathematical Economic Analysis (3) Mathematical analysis of economic theory and problems. Constrained maxima and minima, linear and nonlinear programming, elementary differential and difference equations, and economic applications. Usually offered every term. *Prerequisite:* 41.221 and 41.222 or equivalent.

19.522 Econometrics (3) Theory of economic statistics and development of statistical models to be applied to economic data. Statistical criteria, hypothesis testing, multiple regression analysis, violations of the basic assumptions of regression analysis, and analysis of variance. Computer applications. *Prerequisite:* three hours of undergraduate statistics and 41.211 or equivalent.

19.524 International Economics: Trade (3) Classical, neoclassical, and alternative theories of the gains from trade and the determination of the pattern of trade. Analysis of the welfare effects of trade policies. Modern theories of trade with increasing returns and imperfect competition; strategic trade policy. Usually offered every fall. *Prerequisite:* 19.500 or permission of instructor.

19.525 International Economics: Finance (3) International monetary economics and open-economy macroeconomics. Balance-of-payments adjustment, exchange-rate determination, capital mobility, and the international monetary system. Usually offered every spring. *Prerequisite:* 19.501 or permission of instructor.

19.531 Financial Markets (3) Institutional and theoretical aspects of creating, holding, and exchanging financial assets—money, credit instruments, and equities. The liabilities created by financial intermediaries and the role of government in financial markets. Usually offered every fall. *Prerequisite:* 19.500 or equivalent, which may be taken concurrently.

19.532 Monetary Theory and Policy (3) Relation of money and other financial assets to prices, output, and interest rates. Emphasis on the demand and supply of money and on government monetary policy. Usually offered every spring. *Prerequisite:* 19.501 or equivalent, which may be taken concurrently.

19.533 Development Banking (3) Public, private, and mixed development banks and their advantages and disadvantages. Relations of development banks to money and capital markets—competitiveness and compatibility with other financial institutions; sources of funds; use of funds; autonomous and syndicated operations; fund management and project supervision; loan repayment; and successive financing and development banking as instruments of promoting development. Usually offered every term. *Prerequisite:* 19.500 and 19.501.

19.541 Public Economics I (3) Rationale for the existence of the public sector. Theory of public goods and taxation. Usually offered every fall. *Prerequisite:* 19.500 and 19.501, or permission of instructor.

19.542 Public Economics II (3) Analysis of public expenditure, cost-benefit analysis, budgeting, and fiscal policy. Usually offered every spring. *Prerequisite:* 19.541 or permission of department.

19.546 Industrial Organization (3) The structure of industrial markets and the behavior of business firms in the United States. Evaluation of welfare implications of current market structures, business behavior, and related government policies. Usually offered every fall. *Prerequisite:* 19.300 or 19.603 or permission of department.

19.548 Economic Indicators (3) How the economy is measured, including GNP, inflation, unemployment, poverty, money supply, international trade, and balance of payments. An analysis of the methods and uses of economic statistics and how the way in which the economy is measured affects economic-policy debates. Usually offered every spring. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.551 Theory of International Trade and Multinational Corporations (3) Theory of international specialization, world trade and development, commercial policy, balance of payments, and multinational corporations. Usually offered every fall. *Prerequisite:* 19.603 or 19.500.

19.552 Structure and Operation of the Soviet Economy (3) Rate of growth and changing structure of the

economy with emphasis on the period since 1928. Conditioning factors. Planning techniques and procedures. International economic relations. Usually offered every spring. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.555 Political Economy of Latin American Development: Theories versus Realities (3) Review of development theory. Structural problems and economic, social, and political institutions. External dependency and internal instability. Trade, foreign investment, aid, unemployment, population, and technology. Role of integration. Current fiscal and monetary policies. *Prerequisite:* 19.307 and 19.301 or 19.300 or 19.603 or permission of department.

19.557 Economics of Central America (3) Analysis of recent economic development in Central America with an emphasis on the last twenty years. Major topics: industrial development, international trade, and the causes of current economic crises. Emphasis on evolution and collapse of Central American Common Market and prospects for regional economic integration. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.560 Survey of Economic Development (3) Alternative theories of economic development: classical, neoclassical, Marxist, dependency, neo-Marxist, and growth and equity approaches. Case studies of capitalist and socialist development. Usually offered every term. *Prerequisite:* 19.300 or 19.603.

19.562 Urban Economic Development (3) A comparative economic analysis of urbanization in industrialized and newly developing countries. Topics include urban origin and growth, urban form, and urban transportation. The course integrates theory with current policy debates. Usually offered alternate falls. *Prerequisite:* 19.300 and 19.301 or 19.603.

19.563 Economic Development: Theory and Applications (3) Neoclassical growth theory: Swann-Solow, Harrod-Domar, Lewis-Fei-Ranis. Analysis of issues such as inflation, technological transfer and choice, urban migration, population, employment, energy, agriculture, monetary and fiscal policy, international trade and investment. Usually offered every spring. *Prerequisite:* 19.560, 19.500, and 19.501.

19.564 Development Finance (3) Role of finance in economic development; analysis of the interaction between the financial sector and the rest of the economy; international finance, the debt crisis, and the structural adjustments and stabilization programs in the Third World. *Prerequisite:* 19.300 and 19.301

19.571 Labor Economics: Theory (3) Contemporary theories of wages, employment, and prices; collective bargaining; the effect of collective bargaining on wages in the American economy; theories and empirical studies of wage differentials. Usually offered every fall. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.579 Energy Economics, Resources, and the Environment (3) A systematic introduction to the policy issues associated with the changing role of energy and other resources in modern economics. Specifically, a microanalytic approach is used to evaluate complex policy problems associated with economic growth, energy development, and environmental externalities. For master's students and advanced undergraduate economics majors. Usually offered every fall. *Prerequisite:* 19.500 or 19.603.

19.590 Independent Reading Course in Economics (1-6)

Graduate Courses

19.603 Introduction to Economic Theory (3) The major analytical tools of price and income theory. No credit toward degrees in the Department of Economics. Usually offered every term. *Prerequisite:* 19.100.

19.611 Survey of International Economics (3) International trade theory and international monetary economics for graduate students in other departments. Emphasis on policy applications. No credit toward degrees in the Department of Economics. Usually offered every term. *Prerequisite:* 19.300 and 19.301, or 19.603.

19.633 Development-Project Cycle (3) Examines the development project from inception to ex-post evaluation, focusing on specific cases. Required of all students in the Development Lending track of the M.A. in Development Banking. Usually offered every spring. *Prerequisite:* 19.510, 19.533, and 19.560.

19.634 Negotiating Development Loan Contracts (3) Workshop in development-projects contract negotiation for nonlawyers. Designed around specific projects. Required as terminal course for completion of work in Development Lending track of M.A. in Development Banking. Usually offered every spring. *Prerequisite:* 19.533 and 19.561.

19.635 International Capital Markets Workshop (3) Case study in design of prospectus for a public bond issue or private placement in international capital market or both, with special emphasis on a full-scale exercise in steps leading from analysis of credit worthiness to completion and marketing of a bond issue. Usually offered every fall. *Prerequisite:* 19.533 and 19.561.

19.690 Independent Study Project in Economics (1-6)

19.691 Internship (1-6)

19.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

19.702 Macroeconomic Analysis I (3) Analysis of determinants of aggregate demand and supply and their interactions in closed and open economies. Theoretical and empirical analysis of sectoral relations including consumption, investment, government, foreign sector, and demand and supply for money. Usually offered every spring. *Prerequisite:* 41.211 or equivalent.

19.703 Microeconomic Analysis (3) Theories of demand, market structure and performance, production and distribution, and supply. Introduction to general equilibrium analysis. Usually offered every fall. *Prerequisite:* 41.211 or equivalent.

19.711 Theory of Political Economy II (3) An analysis of advanced topics in value theory, crises and depressions, the theory of money, international capital flows, and distribution. Usually offered every spring. *Prerequisite:* 19.511 or permission of instructor.

19.712 Macroeconomic Analysis II (3) Recent developments in macrotheory (monetarist to new classical school) and macrodynamics, including theory of growth and fluctuation and theory of income distribution. Usually offered every spring.

19.713 Advanced Price Theory (3) An advanced treatment of general equilibrium; capital theory; income distribution theory; welfare and public policy. Usually offered every spring. *Prerequisite:* 19.500 or 19.703.

19.721 Advanced Mathematical Economic Analysis (3) Systems of difference and differential equations, dynamic optimization techniques such as calculus of variations and optimal control theory, and economic applications. *Prerequisite:* 19.521.

19.722 Statistical Foundations of Econometrics (3) Probability topics in distribution theory. Methods of estimation and hypothesis testing. Selected topics in linear algebra. Usually offered every fall. *Prerequisite:* undergraduate statistics, 41.211 or knowledge of integral calculus, and 19.521.

19.723 Econometric Methods (3) The two-variable/multivariate regression models and the variations on the standard model, including serial correlation, heteroskedasticity, multicollinearity, stochastic regressors, dummy variables, etc. Simultaneous equation models: estimation and identification. Special topics as time permits. Usually offered every spring. *Prerequisite:* 42.502.

19.724 Seminar in Econometrics (3) Extension of econometric theory and applications, including maximum likelihood methods and asymptotic theory. Assessment of econometric models and their use. Usually offered every third term, following 19.723. *Prerequisite:* 42.502 and 19.723.

19.774 Seminar in Economic Thought (3) Special topics in the history of economic thought with emphasis on problems of methodology and philosophy. Usually offered every spring. *Prerequisite:* 19.504.

19.778 Seminar in Economic History (3) Selected topics and research in economic history, American and European. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 19.507 or 19.508.

19.781 Seminar in Political Economy (3) Advanced analysis of selected topics in political economy. For doctoral students. Usually offered every spring. *Prerequisite:* 19.511 and 19.711 or permission of the department.

19.784 Seminar in International Trade and Finance (3) Selected advanced topics in international economics. Research paper required. Usually offered every spring. *Prerequisite:* 19.524 and 19.525, or permission of department.

19.788 Seminar in Economic Development (3) Research seminar involving a treatment in depth of selected topics. Research paper required. *Prerequisite:* 19.560.

19.790 Seminar in Labor Economics (3) Public policy toward labor unions; the economics of human capital; measurement and analysis of income distribution; poverty measurement and analysis; unemployment and manpower policy; selected topics in labor policy. Usually offered alternate springs. *Prerequisite:* 19.500 and 19.501.

19.797 Independent Research: Master's Thesis Seminar (1-6) Usually offered every term.

19.799 Independent Research: Doctoral Dissertation Seminar (1-24) Usually offered every term.

Education

Undergraduate Courses

21.200 Schools and Society /S 4:2 (3) The major philosophical, historical, and social movements that have influenced American education and students. This foundation serves as a basis for studying contemporary education and the issues of racism, sexism, finance, governance, innovations, and the social context of American education. Lecture, discussion group, and field observations. *Prerequisite for General Education credit:* 65.100 or 54.105. *Note:* not open to students who have taken 21.300 Foundations of Education.

21.203 Career Education: You and Your Future (2) What to major in and the career to pursue are important decisions a student can and should control. In this course, students learn research and interviewing skills and apply them to selection of a major and exploration of potential career fields. Usually offered every term.

21.205 Education for International Development /S 3:2 The conserving role of education as a socializing agent and the liberating role of education as an engine of change. Special attention is given to the social and economic impact of education in national development, especially in the Third World. *Prerequisite for General Education credit:* 03.110 or 19.110 or 33.110. *Note:* not open to students who have taken 21.578 Comparative and International Education.

21.212 Methodology of Sign Language /A (3) The principles of manual communication and some principles of American Sign Language (ASL) are introduced. Learning signs and gaining expressive and receptive skills are stressed.

21.250 Mathematics for Elementary School Teachers (3) Basic mathematical concepts are considered, providing an understanding of the structure of elementary school mathematics. Tutorial experiences encouraged. Usually offered every term. *Prerequisite:* second-semester freshman standing.

21.315 Educational Issues and Approaches in Gifted Education (3) Historical development, definitions, incidence levels, identification procedures, characteristics (intellectual, creative, social, emotional, psychomotor), programs, interviews with gifted children and their parents, minority gifted, special problems, teachers, trends, and future perspectives. Usually offered every fall. Meets with 21.615.

21.319 Children's Literature: Multicultural and International Approaches (3) Analysis of various genres of children's literature and of the way contemporary issues are reflected in children's books from preschool through adolescence. Topics include the portrayal of minority groups, women, the elderly, those from different cultures, changing family life styles, death and dying, and the international concerns of war and peace. Usually offered every spring. Meets with 21.619.

21.320 Psychology of Education (3) Psychological problems in learning. Nature and control of learning; theories of motivation; development of skills and knowledge; pupil evaluation of tests and management; creative learning and critical thinking. Lecture, small group discussion, and one half-day of field experience in schools per week. Usually offered every term.

21.321 Field Experience: Observation & Analysis (1) Extensive observation and analysis of curriculum and instruction in a variety of school settings. Students gain skill in using several formal and informal observation instruments with particular emphasis on classroom interaction. Usually offered every term. Meets with 21.320.

21.325 Global and Multicultural Education (3) This course deals with the role of American education in an interdependent world, examining both the multicultural character of American classrooms and the international dimensions of the American school curriculum. It explores such issues as ethnocentrism, empathy, and global awareness, including an analysis of educational materials and methods useful in treating these issues. A special emphasis is placed on developing skills for cross-cultural understanding and communication. Meets with 21.625. Usually offered every spring.

21.330 Speech and Generic Teaching Methods (3) Introduction to research on equity and effectiveness in teaching. Emphasis on development of instructional objectives and speech and presentation skills. Other teaching skills include questioning, classroom management, evaluation, and academic learning time. Students demonstrate teaching skills in clinical settings. Usually offered every fall. *Prerequisite:* 21.200 and 21.320.

21.339 Methods and Materials for Teaching Art in Elementary and Secondary Schools (3) Utilizing sound learning theory and practical resource materials, each student analyzes, evaluates, plans, and implements a wide range of projects concerned with the teaching of art in schools. Usually offered every spring. *Prerequisite:* 21.200, 21.320, and admission to teacher education program.

21.340 Methods and Materials in Secondary Education: General and Special: English, Social Studies, Mathematics, and Foreign Languages (3) General methods, materials, and applications to special school subjects. Laboratory experiences in the university classroom and in area secondary schools. Students provide their own transportation. Usually offered every spring. *Prerequisite:* 21.200, 21.320 or approved equivalent, overall grade-point average of 2.70 (3.00 in the major), and admission to teacher education program.

21.371 Theories of Reading (3) How to teach reading to children. How to evaluate children's unique strengths and weaknesses and take advantage of this information in planning reading programs for children. Usually offered every spring. *Prerequisite:* 21.200 and 21.320.

21.372 Methods and Practicum in Childhood Development (2) An overview of the preschool years. Material focuses on stages of development and on methods of teaching young children and developing curriculum. Practicum in the child development center, interviews, and oral presentations complement readings and class discussion. Usually offered every spring.

21.389 Sexism in School and Society: National and International Perspectives /S (3) Topics include textbooks, school counseling, sex-segregated schools, school personnel behavior, vocational education, physical education and athletics, and international developments concerning sex equity. Examination of recent attempts to develop sex-fair textbooks, legal actions such as Title IX of the 1972 Education amendments, and case studies. Meets with 21.689. Usually offered every spring.

21.390 Independent Reading Course in Education (1-6)

21.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education Field Experience. *Prerequisite:* completion of thirty credit hours of course work and permission of director.

21.402 Methods of Teaching Children with Learning Disabilities (3) An introduction to special education with emphasis on learning disabilities. Attention to perceptual and cognitive development of children and adolescents and their academic and behavioral problems. Emphasis on teaching through children's strengths and interests, remedial approaches for their weaknesses, and special techniques of management. Usually offered every spring.

21.490 Independent Study Project in Education (1-6)

21.491 Internship in Education (6-9) Students participate in the professional activities of selected educational organizations or agencies in the Washington area. Students gain experience in nonteaching occupations that are integrally related to education and gain skills in educational research and curriculum or program development and dissemination. Usually offered every term. *Prerequisite:* permission of the director of the internship program.

Graduate and Advanced Undergraduate Courses

21.501 Language Arts and Social Studies Curricula in Special Education (3) The relation between teachers and their curriculums and learners and their needs. First semester concentrates on language arts and social studies including teaching of reading as a crucial educational responsibility, reading in relation to principles of learning and child development, materials and techniques for specific learning outcomes, the role of language in the child's life, and interrelationships between various phases of language arts. Practicum experience includes teaching under videotape supervision.

21.502 Methods of Managing Pupils with Behavior Disorders (3) Psychoeducational methods of understanding and managing inappropriate classroom behavior. Techniques such as groups, problem solving, role playing, and videotape analysis of behavior. Usually offered every fall.

21.503 Theories and Practices in Special Education (3) Theories and methods of reeducating emotionally disturbed children, such as psychodynamic, behavioral, psychoeducational, educational, and ecological models. Case conferences, guest lectures, group discussions, and videotape analysis. *Prerequisite:* 21.502.

21.504 Methods of Psychoeducational Assessment (2-3) Understanding the meaning of a child's behavior. Issues and concepts in measuring behavior, interpreting data, psychoeducational programming, and follow-up evaluation. Practicum experiences include observation and participation in classroom activities, group and individual testing, and psychoeducational case conferences. Usually offered every spring.

21.508 Theories and Methods of Urban Education Curriculum (3) Procedures, dynamics, and content of inner-city education and the way in which this system affects exceptional children who have emotional disturbances. This curriculum is employed through theory and application of methods in practicum experience.

21.519 Computers in Education (3) An introduction to computer literacy, with emphasis on the role of the computer in the elementary school. Students learn methods and criteria for the evaluation of educational software,

programming in BASIC and LOGO, as well as skills in teaching effectively with computers. Additional topics include the history of computers, educational applications of computers, and the impact of computers on education. Usually offered every fall.

21.520 Reading, Writing, and Literature Across the Curriculum (3) Strategies and approaches appropriate for implementing reading and writing assignments for any content area are presented and practiced. Literature relative to each content area is explored and connected to learnings. Reading assignments, practical course competencies, and opportunities to integrate the three areas are included. Usually offered every spring.

21.521 Foundations of Education (3) An overview of the historical, philosophical, political, and social foundations of American education. Contemporary topics in American education are addressed, including curriculum reform, the reform reports, school governance, school law, and school finance. Usually offered every summer.

21.522 Principles of Effective Methods and Instruction (3) An in-depth examination of the methods and competencies necessary for teaching, including instructional planning, writing objectives, lesson presentation, questioning, interpersonal communication, classroom management, lecturing, and evaluation. Usually offered every spring.

21.525 Introduction to Statistics, Tests, and Measurement (3) Introduction to descriptive and inferential statistics and to tests and measurement. Topics include: measures of centrality, dispersion, and association; statistical distributions; tests of hypotheses; problems of measurement; achievement, aptitude, and behavior tests; and student evaluation.

21.541 Foundations of Special Education for Exceptional Children (3) Characteristics of exceptional children and of problems in providing educational programs to meet their needs. Usually offered every spring.

21.545 Overview of All Exceptionalities: The Arts in Special Education (3) An experiential course treating a variety of handicapping conditions and introducing a panoply of art forms. Students learn to program for success in each art form by building on the abilities, strengths, and interests of each disabled person, systematically programming academic material into arts activities, and teaching socialization and life skills. Usually offered every fall.

21.551 Counseling Skills in Training and Development (3) The development of basic counseling and interviewing skills needed to assist in individual development through the life span, with an emphasis on adult social, personal, and career development. Usually offered every fall.

21.552 The Teaching of Mathematics in Elementary Education (2) Materials and methods for teaching mathematics. Emphasis on the analysis of current research and effective mathematics instruction. Laboratory experiences in the university classroom and in area elementary schools. Students provide their own transportation. Must be taken concurrently with 21.553, 21.554, 21.555, and 21.556. Usually offered every fall. *Prerequisite:* Admission to the Elementary Education Program

21.553 The Teaching of Language Arts in Elementary Education (2) Strategies for teaching language arts in elementary school. Emphasis is on teaching reading, speaking, and writing skills to elementary school students with special attention to the most current research in

language arts instruction. There is practical application in microteaching settings and in local elementary schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* admission to the Elementary Education program. Must be taken concurrently with 21.554, 21.555, and 21.556.

21.554 The Teaching of Social Studies in Elementary Education (2) Lecture, discussion, and practical application of materials and skills for social studies education of children through grade six. Emphasis on the analysis of current research in effective social studies teaching. Field work and practice teaching in local schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* Admission to the Elementary Education program; must be taken concurrently with 21.552, 21.553, and 21.555 and 21.556.

21.555 The Teaching of Reading in Elementary Education (3) Through participation in the university classroom and subsequent application of knowledge in the field, students learn the major reading approaches and accompanying materials currently used in elementary schools. Emphasis on the analysis of current research in effective reading instruction. Field work and practice teaching in local schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* Admission to the Elementary Education program. Must be taken concurrently with 21.552, and 21.553, 21.554 and 21.556.

21.556 The Teaching of Science in Elementary Education (3) Methods, materials, and curricula used in elementary school science; basic laboratory skills, safety and legal aspects. Field trips and field experiences. Usually offered every fall.

21.558 Psychodynamics of Family Life (3) The normal developmental stages of families and the variety of maladaptive responses to family crises.

21.561 Introduction to Student Development in Higher Education (3) Philosophical, psychological, and sociological bases for student personnel administration. Emphasis on admission, orientation, counseling, judiciary functions, student activities, financial aid, housing, health services, and career counseling and placement in student personnel services.

21.566 Seminar: Cultural Factors in Higher Education (3) Study of college students and their culture. Emphasis on assessment and evaluation of phenomena in the collegiate setting to gain insight into cultural dynamics that bear on student development.

21.583 Curriculum Construction and Program Design (3) A review of the history of curriculum development, an analysis of current curricular issues, development of a comprehensive curriculum design based on a goal-focused model. An emphasis on the psychological and educational bases of curriculum construction for a variety of educational settings. Usually offered every fall.

21.587 Analysis of Instruction and Training (3) For administrators, supervisors, trainers, and teachers. Research on instructional effectiveness and analysis of teaching and training styles. Students are encouraged to broaden their repertoire of teaching and training skills.

21.590 Independent Reading Course in Education (1-6)

21.599 Student Teaching (6-15) Various sections provide student teaching opportunities in elementary, secondary, and special education classrooms as appropriate to stu-

dent interest and professional preparation. Student teaching includes observation, teaching, seminars, and conferences with cooperating teachers and university supervisors. Students provide their own transportation. Applications for student teaching must be submitted by October 1 or March 1 for the following semester. *Prerequisites:* successful completion of the appropriate methods courses, recommendation of the methods instructor, admission to the School of Education and timely completion of written applications for student teaching placement. *Secondary-school foreign language* students may take methods concurrently with twelve weeks of student teaching. *Elementary and secondary schools: music* (for students desiring certification for kindergarten through twelfth grade, student teaching is split between elementary and secondary placements); admission to the teacher education program and student teaching, and successful completion of appropriate methods courses.

Graduate Courses

21.605 Methods of Psychoeducational Assessment for Learning Disabilities and Emotional Disturbance (3) Critical issues and concepts in the measurement of behavior, data interpretation, and follow-up evaluation for learning-disabled and emotionally disturbed children and adolescents. Usually offered every spring. *Prerequisite:* 21.645 and 21.525 or permission of instructor.

21.606 Theories and Methods in Diagnostic and Remedial Mathematics (3) Readings, demonstrations, educational games, and laboratory exercises. The material is implemented in trainees' classroom. Usually offered every spring.

21.607 Research Seminar in Special Education (3) A review of basic research designs used in special education, with emphasis on developing an interdisciplinary research case study. Usually offered every fall. *Prerequisite:* permission of instructor.

21.615 Educational Issues and Approaches in Gifted Education (3) Historical development, definitions, incidence levels, identification procedures, characteristics (intellectual, creative, social, emotional, psychomotor), programs, interviews with gifted children and their parents, minority gifted, special problems, teachers, trends, and future perspectives. Usually offered every fall. Meets with 21.315.

21.619 Children's Literature: Multicultural and International Approaches (3) Analysis of various genres of children's literature and of the way contemporary issues are reflected in children's books from preschool through adolescence. Topics include the portrayal of minority groups, women, the elderly, those from different cultures, changing family life styles, death and dying, and the international concerns of war and peace. Usually offered every spring. Meets with 21.319.

21.620 Theories of Educational Psychology (3) Psychological principles and research having special relevance to education, including a consideration of motivation, attitudes, mental abilities, and the psychology of school subjects.

21.625 Global and Multicultural Education (3) This course deals with the role of American education in an interdependent world, examining both the multicultural character of American classrooms and the international dimensions of the American school curriculum. It explores such issues as ethnocentrism, empathy, and global aware-

ness, including an analysis of educational materials and methods useful in treating these issues. A special emphasis is placed on developing skills for cross-cultural understanding and communication. Meets with 21.325. Usually offered every spring.

21.631 Introduction to Administration in Education, Training, and Development (3) Introduction to the development, administration, and improvement of institutions, organizations, agencies, and enterprises, including schools, through education, training, and development services. Usually offered every fall. *Prerequisite:* restricted to graduate students in the School of Education.

21.632 Problems in Organizational Management for Education, Training, and Development (3) A case-study approach to the study of internal problems. Problem-solving models employed in simulated and real situations in education and other training settings.

21.633 Business and Fiscal Administration for Education, Training, and Development (3) Principles and practices of financing public education programs at federal, state, and local levels. Taxes, bonds, budgets, purchasing systems, accounting systems, and other aspects of school business administration are covered. Usually offered every fall. *Prerequisite:* 21.631.

21.635 Training Program Design (3) An introduction to the design and delivery of adult training programs, emphasizing the development of skills in a variety of training components: needs assessment, goals and objectives, training methodologies and materials, and evaluation. This course is equally appropriate for novice trainers or those with previous experience. Usually meets every Fall.

21.639 Administrative Effectiveness Workshop (3) A theory-based, skills-oriented workshop for administrators, dealing with concepts of administrative effectiveness, administrative style awareness, style flexibility, situational diagnosis skills, and team skills. Usually offered every spring.

21.644 Language Development and Remediation (3) How does one learn to use language to express thoughts and feelings? How does one teach a learning-disabled child to communicate effectively? This course discusses the developmental sequence of language learning, the nature of language disorders, diagnostic assessment of language disorders, and remedial techniques. Usually offered every fall.

21.645 Learning Disabilities I (3) Examines neurological and developmental aspects of learning disabilities. *Prerequisite:* permission of instructor.

21.646 Learning Disabilities II (3) Develops diagnostic capabilities in order to select and design materials and programs for learning-disabled children and youth. *Prerequisite:* 21.645.

21.653 Techniques and Theories of Counseling in Education (3) Contemporary theories of counseling, personality, and psychotherapy. Discussion of techniques and issues in counseling; practice interviewing and counseling using specific techniques. *Prerequisite:* 21.551.

21.654 Career Counseling Theory and Practice (3) Administration and interpretation of vocational testing; methods of preparing and presenting occupational information; research and theories of vocational choice; theories and practices in placement. Emphasis is on the adult learner. Usually offered every spring. *Prerequisite:* permission of instructor.

21.658 Family Systems and Family Therapy (3) The family as a system. Emphasis is on interaction of family members, family crises, diagnosis, and family treatment theories and interventions. Conjoint and Multiple Impact Therapy approaches and other interdisciplinary and ecological systems of family therapy are also emphasized. *Prerequisite:* 21.551.

21.663 The Community College (3) Organizational patterns, diversity of function, student and faculty, and current problems of the two-year institution. Usually offered every summer.

21.666 Legal Aspects of Education (3) For advanced graduate students pursuing degrees in administration or counseling and development. Study of student-institution relationship, institutional judicial systems, student rights, records, and due-process issues.

21.671 Foundations of Reading: Diagnosis and Remediation (3) Broad considerations underlying the teaching of reading with emphasis on reading disability and problems of the retarded reader. Usually offered every spring.

21.678 Comparative and International Education (3) This course explores the nature of education as a social institution, examining the way in which education both reflects and influences cultural, social, economic, and political life in a variety of nations and cultures. Special emphasis is placed on education as a means to address contemporary global problems.

21.679 Nonformal Education and Development (3) An examination of the role of nonformal education in the economic, social, and political development of developing nations. Specifically, the course deals with out-of-school programs in adult education, literacy, health, family planning, agriculture, nutrition, and community development. Case materials from several countries are used to study the issues and techniques involved in human resource development.

21.682 School Supervision (3) For prospective and in-service supervisors of elementary and secondary schools. Purposes, principles, and techniques of supervision.

21.689 Sexism in School and Society: National and International Perspectives (3) Topics include textbooks, school counseling, sex-segregated schools, school personnel behavior, vocational education, physical education and athletics, and international developments concerning sex equity. Examination of recent attempts to develop sex-fair textbooks, legal actions such as Title IX of the 1972 Education amendments, and case studies. Meets with 21.389. Usually offered every spring.

21.690 Independent Study Project in Education (1-6)

21.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication. *Prerequisite:* completion of nine credit hours of course work and permission of director.

21.693 Program and Training Evaluation (3) The course seeks to develop the systematic skills needed to conduct evaluations of training and development programs in various educational and organizational settings. Usually offered every spring. *Prerequisite:* 21.525 or equivalent.

21.765 Seminar in Student Development in Higher Education (3) Issues and problems in contemporary programs of student personnel administration. Usually offered every term. *Prerequisite:* permission of instructor.

21.769 Practicum in Student Development (3-6) For advanced students in student personnel services in higher education. Students are assigned to areas of a program of student personnel services for exploratory administrative case and research experience. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* permission of instructor.

21.790 Educational Research (3) Fundamentals, methods, and materials for educational research. Required of all students. *Prerequisite:* 21.525 or equivalent and admission to a graduate program in education.

21.791 Research Seminar in Education (3) A comprehensive research paper is required. A grade of B or better is required to receive credit. *Prerequisite:* 21.790

21.792 In-Service Training Project: Internship in Education (3-12) Internships in cooperating school systems and other agencies and organizations as an integral part of degree programs in the School of Education. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

21.797 Master's Thesis Seminar (1-6) At least three credit hours required of all students working on master's theses.

21.799 Doctoral Dissertation Seminar (1-12) A total of twelve credit hours is required of all students working on doctoral dissertations. Usually offered every term. *Prerequisite:* 21.790 or equivalent and advancement to candidacy.

Literature

Undergraduate Courses

23.100 College Writing (3) Develops students' skills in reading with understanding; summarizing and synthesizing information accurately; and writing correct, reasoned prose. Usually offered every term. Completion with a grade of C or better fulfills one semester of the university English course requirement and the English competency requirement.

23.101 College Writing Seminar (3) Continues the work begun in 23.100, stressing the student's abilities to construct extended arguments, to synthesize diverse materials, and to pursue library research. Usually offered every term. Completion with a grade of C or better fulfills one semester of the university English course requirement. *Prerequisite:* 23.100 or equivalent.

23.102 College Writing (3) 23.102 and 23.103 are essentially the same as 23.100 and 23.101. They are designed, however, for students whose language skills need special attention, and they have an additional class session each week. Usually offered every term.

23.103 College Writing Seminar (3) See course description for 23.102. Usually offered every term. *Prerequisite:* 23.102 or equivalent.

23.105 The Literary Imagination /A 1:1 (3) The fundamental imaginative processes that underlie and connect the activities of literary creation and literary understanding. Besides reading works by both male and female writers chosen from a variety of times and places to represent each of the major genres, students also do critical and creative writing of their own. Usually offered every term. *Note:* not

open to students who have taken 23.141 Understanding Literature.

23.110 College Reading (2-3) Develops the ability to cope efficiently with the rigors of academic life. Emphasizes practical techniques of reading in different disciplines, speed reading, time management, note taking, exam skills, and research. Usually offered every term. Consult adviser to determine whether to register for 2 or 3 credit hours.

23.115 Remarkable Literary Journeys /A 2:1 (3) A selective introduction to the tradition of Western literature from oral epic to twentieth-century texts, this course builds on a central literary metaphor: the idea of the journey or quest. Diverse literary masterpieces embody but also go beyond this concept, offering students a rich foundation in classical works of the Western literary imagination. Usually offered every fall.

23.120 Interpreting Literature /A 1:1 (3) This course teaches students to analyze and interpret literary texts: poetry, drama, and prose fiction. It teaches the general process through which one comes to a more comprehensive understanding to literary works. Since interpreting entails the ability to communicate understanding, the course also teaches the writing of interpretive criticism. Usually offered every term. *Note:* not open to students who have taken 23.140 Critical Reading.

23.130 Honors English I (3) Limited to first-year students, by invitation. Usually offered every fall. Completion with a grade of C or better fulfills one semester of the university English course requirement and the English competency requirement.

23.131 Honors English II (3) Limited to first-year students, by invitation. Usually offered every spring. Completion with a grade of C or better fulfills one semester of the university English course requirement.

23.135 Critical Approach to the Cinema /A 1:1 (3) Analysis of film content and style through screenings and substantial readings in aesthetic theory and film history. Also considers social issues, cultural artifacts, and forms of artistic expression. Usually offered every term. *Note:* not open to students who have taken 23.275 Critical Approach to Cinema.

23.150 Third World Literature /A3:1 (3) An introduction to literature written by writers from the Third World: Africa, Asia, and Latin America. The emphasis is on contemporary fiction and the ways that this writing depicts cultural and political change brought about by the impact of outside forces. Usually offered every term.

23.180 Writing Workshop (3) An intensive writing seminar reviewing grammar and the principles of clear, correct expository prose. Completion with a grade of C or better fulfills university competency requirement. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or 23.102 and 23.103 or permission of instructor.

23.200 Introduction to Creative Writing (3) Creative writing for beginning students who want to write poetry, fiction, drama, reportage, and autobiography, with specific assignments in each category. With departmental permission, course may be repeated for credit, but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.201 Advanced Writing Workshop (3) Seminar designed to help students polish their writing skills. Stresses persuasive, expository, and informational writing. Usually offered every term. Completion with a grade of C or better

fulfills the university competency requirements. *Prerequisite*: 23.100 and 23.101 or equivalent.

23.202 Writing for Prospective Lawyers (3) An advanced course in writing designed to hone the skills necessary to write legal briefs, memoranda, and agreements. Particular attention is paid to logic and argumentation. Usually offered every term. *Prerequisite*: 23.100 and 23.101 or equivalent.

23.203 Business Writing (3) The course stresses clarity, conciseness, and directness in the preparation of correspondence, memoranda, reports, proposals, and other kinds of writing common in the business world. Usually offered every spring. *Prerequisite*: 23.100 and 23.101 or 23.102 and 23.103.

23.205 Issues, Ideas, and Words (3) Through class discussions and frequent written assignments, the course helps students understand and articulate their learning in relation to thought in the humanities, natural sciences, and social sciences. Enrollment limited to students in the APEL program. Completion with a grade of C or better fulfills the first semester of the university English course requirement and the English competency requirement. Usually offered every term.

23.210 Major American Writers I: An Introductory Survey (3) A study of the American writers who exercised a formative and continuing influence on American letters and intellectual life. An appraisal of their roles in the history of literature and thought and an aesthetic evaluation of their works. The colonial, national, and romantic periods. Usually offered every fall.

23.211 Major American Writers II: An Introductory Survey (3) A study of the American writers who exercised a formative and continuing influence on American letters and intellectual life. An appraisal of their roles in the history of literature and thought and an aesthetic evaluation of their works. The realist, naturalist, modern, and contemporary periods. Usually offered every spring.

23.220 Major British Writers I: An Introductory Survey (3) A study of the principal writers of the British tradition: Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Johnson, and Boswell. Each writer is examined as a representative voice of his age and as an individual artist. Usually offered every fall.

23.221 Major British Writers II: An Introductory Survey (3) A study of the principal writers of the British tradition: Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, and Eliot. Each writer is examined as a representative voice of his age and as an individual artist. Usually offered every spring.

23.225 The African Writer /A 1:2 (3) Contemporary African literature, with special emphasis on the role of the writer. The course includes many of the major African literary works of the last sixty years—fiction, poetry, and drama—and at the same time focuses on the African writer's unique role as creator of functional art. *Prerequisite for General Education credit*: 23.120 or 23.105.

23.230 Major European Writers I: An Introductory Survey (3) A study of selected continental writers from the Greeks to the seventeenth century. The method is chronological, with attention given to the emergence and development of major literary forms. Usually offered every fall.

23.231 Major European Writers II (3) An introductory survey of the major European writers and literary periods

from the eighteenth to the twentieth century. Usually offered every spring.

23.235 Afro-American Literature /A 2:2 (3) A survey of Afro-American Literature beginning with the poet Phillis Wheatley and the slave narratives of the 1700s and concluding with Malcolm X and Toni Morrison. The emphasis is on the continuity of black writing within its historical and cultural contexts. Usually offered once a year. *Prerequisite for General Education credit*: 23.115 or 29.115. *Note*: not open to students who have taken 23.324 Black American Literature.

23.240 Narrative and Knowledge /A 1:2 (3) Since Aristotle's distinction between tragedy and history, the novel has been defined by its relationship to true events. This course confronts the aesthetic workings of various narratives, their roots in romance and history, as well as how they refer to "reality," historical fact, and transcendent truth. Usually offered every fall. *Prerequisite for General Education credit*: 23.105 or 23.135.

23.241 Living Writers (3) Offers students the opportunity to study works by contemporary authors and then to continue their exploration of these works in meetings with the writers. Features locally and nationally prominent writers, including American University writing faculty. Usually offered every spring.

23.245 The Experience of Poetry /A 1:2 (3) Without dwelling on "professional" terminology and technique, the course aims to make poetry more accessible and enjoyable through reading, writing, and discussion. Students are asked to write some poetry along with nearly traditional papers, but the poetry assignments are designed to reassure those who doubt their creativity. Usually offered every spring. *Prerequisite for General Education credit*: 23.120 or 23.105. *Note*: not open to students who have taken 23.304 Elements of Poetry.

23.250 Image of Italy in English and American Writers (3) From Edward Gibbon to Ezra Pound, English and American writers have been stimulated by their experience in Italy in a way fundamental to the development of their work. This course explores the changing and complex image of Italy in English and American literature. Offered only in Rome. Usually offered every term.

23.251 Roman Literature in Translation (3) A survey of ancient Roman literature focusing on the theme of urbanity and city life from Plautus through Juvenal, middle republic through middle empire. Readings from comedy, lyric poetry, epic, history, essay, novella, letters, law, and satire. Usually offered every term. Offered only in Rome.

23.255 Political Revolutions and Literary Continuity, 1660-1798 /A 2:2 An examination of four competing ideologies from 1660 to 1798. Introduction to the ideas and institutions in Western culture that are associated with the emergence of modern thought. Students read texts across the curriculum (art, literature, history, philosophy) to better grasp this essential period. Usually offered every fall. *Prerequisite for General Education credit*: 07.100, or 29.115, or 23.115.

23.265 Literature and Society in Victorian England /A 2:2 (3) This course draws connections between literary works and their social context. It is divided into significant cultural topics, such as the effect of scientific advancement on society at large, how Victorians perceived themselves at home and at work, and how issues of political reform affected literary works. Readings include historical studies, as well as novels and poems. Usually offered every

spring. *Prerequisite for General Education credit:* 29.110 or 23.115. *Note:* not open to students who have taken 01.200 Honors Seminar in the Arts and Humanities: Culture and Society in the Nineteenth Century.

23.270 Transformations of Shakespeare / A 1:2 (3) Shakespeare's use of dramatic form, such as tragicomedy, masque, and spectacle. In addition, students learn about the interrelationship between form and meaning by seeing how the cultural myths encoded in these genres become transformed in different ages, media, and cultures. *Prerequisite for General Education credit:* 07.105, or 23.120, or 67.115.

23.301 Development of the Novel (3) A study of the form of the novel in the West, from its beginnings on the European continent during the Renaissance (Cervantes and Madame de La Fayette), through the New Novel (Robbe-Grillet). Readings in representative novelists and critics of the genre.

23.303 The Short Story (3) Concentrates either on the evolution of the short story as a form, or on its characteristic shape in particular literary traditions (e.g., Eastern Europe) or at particular times (e.g., The Contemporary American Short Story). May be repeated for credit in the same term; topic must be different.

23.306 Topics in Folklore (3) Rotating topics, including ethnic folklore; occupational folklore; folklore and literature; women's folklore; folktales, ballads, and epics; the folklore of Ireland; storytelling and society; urban folklore; the folklore of Washington, D.C.; family folklore; and children's folklore. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

23.307 Drama: The Page and the Stage (3) Examples of major dramatic forms (tragedy, comedy, and tragicomedy) from the classical Greek period to the present. The plays are studied as drama and as cultural artifacts of the ages in which they were produced. Usually offered alternate falls.

23.308 Modern Drama (3) Modern drama as written literature, from Ibsen to the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc.

23.310 Major Authors (3) Intensive study of the works of one or more important authors. Attention is paid to the evolution of the author's canon, to the effects of (and on) the literary context, to the relationship between works and biography, and to the historical and cultural context of the writer. Usually offered at least once a year. May be repeated for credit in the same term; topic must be different.

23.315 Poetry in the Age of Whitman and Dickinson (3) Focus on the poems of Whitman and Dickinson, although other writers may be studied, in order to illuminate the period. The course is not primarily historical, but aims at relating the background to the works of art. Close reading of individual texts is required. Usually offered alternate falls.

23.316 Nineteenth-Century American Novel (3) Emphasis on literary evolution of a form as it expresses historical evolution of national consciousness. Novelists studied include Hawthorne and Melville.

23.317 Emerson, Thoreau, and Twain: Nineteenth-Century American Prose (3) Readings in nonfictional non-poetic literature—essays, addresses, journals, lectures, etc.—of the nineteenth century. The work of Emerson and Thoreau is stressed. Usually offered alternate springs.

23.318 American Literary Realism (3) Characteristics of novels and short fiction in the realist and naturalist modes. Reading includes works by such writers as Henry James, Mark Twain, William Dean Howells, Kate Chopin, Stephen Crane, Theodore Dreiser, Edith Wharton, Robert Penn Warren, and Richard Wright. May be repeated for credit within the same term; topic must be different. Usually offered alternate falls.

23.320 Modern American Poetry, 1912-1950 (3) Detailed treatment of such established figures as Eliot, Stevens, Frost, Pound, and Williams. The poets chosen may differ from semester to semester, but at least two of these names appear in every session. Other poets may be considered at the discretion of the instructor. Usually offered alternate falls.

23.321 Faulkner and the Literature of the South (3) Readings in the novels, stories, poetry, and essays of the major figures (Southern Agrarians, Wolfe, W.A. Percy, and especially Faulkner) and their successors (O'Connor, Welty, and Walker Percy). Concern is with their art, with the social conditions in which they flourished, and their attitudes toward those conditions. Usually offered alternate falls.

23.322 Contemporary American Literature (3) Topics in American poetry and fiction since World War II. Examination of theories, forms, and strategies of recent fiction; theories, figures, and modes of recent poetry. May be repeated for credit within the same term; topic must be different. Usually offered every spring. *Note:* Students who have received credit for 23.322 Contemporary American Poetry may not take this course if the topic is poetry. Students who received credit for 23.323 Contemporary American Fiction may not take this course if the topic is fiction.

23.325 Fitzgerald and Hemingway (3) A study of the fiction of Fitzgerald and Hemingway with emphasis on their common theme of loss. The relationship between them and their place in the literary period of the twenties and thirties is explored, but the main emphasis is thematic analysis of specific works.

23.330 Celtic Myth and Literature (3) Shows the vital importance of literature in all aspects of early Indo-European society—religion, magic, government, law, education, etc. Includes readings in history, archaeology, social structure, art, and myths, as well as major sagas and poems of Ireland and Wales.

23.331 Chaucer (3) A study of the narrative art and moral vision of Chaucer's poetry. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature.

23.332 Shakespeare Studies (3) Rotating topics on the works of William Shakespeare, including selected early plays, selected later plays, and Shakespeare on film. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Note:* Students who have received credit for Shakespeare I may not take this course if the topic is Plays before 1600. Students who have received credit for Shakespeare II may not take this course if the topic is Plays after 1600. Usually offered every term.

23.334 Literature of the Renaissance (3) Topics in Renaissance literary studies, including Renaissance drama other than Shakespeare (Christopher Marlowe, Ben Jonson, and others), and Renaissance poetry with special emphasis on Sidney, Spenser, Donne, and the Metaphysical and Cavalier poets. May be repeated for credit within

the same term; topic must be different. Usually offered alternate falls. **Note:** Students who have received credit for 23.335 Renaissance Poetry may not take this course if the topic is poetry. Students who have received credit for 23.334 Renaissance Drama may not take this course if the topic is drama.

23.336 Milton (3) Milton as a thinker and a poet. Selections from the prose works are read and analyzed as background for Milton's thought. The majority of the semester is devoted to a close reading of the poems, which are studied with a view toward tracing Milton's development of form and his methods of projecting his world view.

23.337 Restoration and Eighteenth-Century Literature (3) Major writers and dominant forms in the Restoration and neoclassical tradition, including drama, prose fiction, and poetry, as well as essays and satires. Usually offered alternate springs. May be repeated for credit in the same term; topic must be different.

23.339 The Rise of the British Novel (3) A study of novels such as *Moll Flanders*, *Clarissa*, *Tom Jones*, *Tristram Shandy*, and *Emma*, which, with a variety of attitudes and narrative techniques, give images of how real people deal with themselves and others, and portray family life, street life, courtship difficulties, and moral dilemmas of seventeenth and eighteenth-century England.

23.340 Dickens to Conrad: The Nineteenth-Century British Novel (3) Authors such as Dickens and Hardy, titles such as *Vanity Fair*, *Middlemarch*, and *Wuthering Heights*, which explore people's attempts to deal with powerful social pressures, the attractions of money and success, characters' individual impulses and needs, and the eternal verities. Technique is studied, as well as theme and character.

23.341 The Romantic Imagination (3) Most offerings focus on central figures in the English Romantic movement (Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats), but some broaden the term *Romantic* to include writers from various periods and countries who see the imagination, rather than discursive reason, as the prime means of apprehending the truth behind phenomena. May be repeated for credit within the same term; topic must be different. Usually offered every fall.

23.343 Modern British Literature (3) Topics in the literature of Great Britain in the twentieth century including matters of technique, style and social themes. Reading and discussion of such representative writers as Joyce, Lawrence, Forster, Woolf, Huxley, Fowles, Lessing, Hardy, Yeats, Edith Sitwell, Auden, Shaw, Maugham, O'Casey, Eliot, Behan, and Pinter. May be repeated for credit within the same term; topic must be different. Usually offered every fall. **Note:** Students who have received credit for 23.343 Modern British Fiction may not take this course if the topic is fiction. Students who have received credit for 23.344 Modern British Poetry and Drama may not take this course if the topic is poetry and drama.

23.345 The Irish Renaissance (3) The works of Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty, and others are read, and the tradition they form is related to contemporary nationalist movements. Topics alternate between the prose fiction and the poetry and drama of modern Ireland. May be repeated for credit but not in the same term; topic must be different.

23.360 Medieval Literature (3) The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic

and ethical values of medieval culture. Medieval epic drama, lyric, and romance in translation.

23.361 Directions in Modern Fiction (3) Fiction that embodies distinctive threads of the twentieth-century fiction of several nationalities (American, English, French, and German). Emphasis is on underlying philosophical-psychological premises reflected in the works, such as existentialism and myth, and on techniques and innovations such as stream of consciousness, point of view, and chronology.

23.363 French Literature (3) An introduction to French literature (fiction, drama, and poetry in translation) from the tenth century to the present. Among the writers treated are Chrétien de Troyes, Rabelais, Racine, Molière, la Rochefoucauld, Voltaire, Hugo, Balzac, Flaubert, Baudelaire, Proust, Malraux, and Robbe-Grillet.

23.365 The Political Novel (3) An investigation of how writers engaged political issues or the political process in fiction. Includes such works as Henry Adams's *Democracy*, Robert Penn Warren's *All the King's Men*, Emile Zola's *The Debacle*, George Orwell's *1984*, Arthur Koestler's *Darkness at Noon*, and Albert Moravia's *The Fancy Dress Party*. Usually offered alternate springs.

23.367 Russian and Soviet Literature (3) An introduction to Russian and Soviet literature, in translation, from the Middle Ages to the present.

23.368 Dostoevsky and Tolstoy (3) Intensive study of selected works of Dostoevsky and Tolstoy. Authors are treated individually with some comparison.

23.370 A Room of One's Own: Women and Literature (3) Women as writers of and characters in literature. The major issues dealt with are coming of age, sexuality, marriage, alternative roles, identity, motherhood, androgyny, and autonomy. Readings include works by both female and male authors—Woolf, Austen, Hardy, Hawthorne, Lessing, Drabble, Ibsen, and others.

23.375 Film and Literature (3) Adaptations of literature to film and film to literature. Themes and techniques shared among storytelling arts. Psychological, social, and political implications of analogous works of poetry, fiction, drama, and film. May be repeated for credit within the same term; topic must be different. Usually offered every fall. Laboratory fee.

23.376 National Cinema (3) Landmarks of the cinema from a particular country or region such as France, Italy, Eastern Europe, Japan, and the United States. Screenings, readings, and analysis, with attention to artistic movements, historical contexts, and clashing theories and styles. May be repeated for credit in the same term; topic must be different. Laboratory fee.

23.377 Popular Film Genres (3) The traditions, conventions, and outstanding films and filmmakers of a popular genre such as comedy, the western, the thriller, the musical, the gangster film, science fiction, detective, and horror movies. Screenings, readings, discussions, and written analyses. Usually offered every fall. May be repeated for credit in the same term; topic must be different. Laboratory fee.

23.378 Major Filmmakers (3) Intensive study of one or two great directors such as Hitchcock, Antonioni, Fellini, Kurosawa, Ozu, Chaplin, Bergman, and Ford. Screenings, analyses, and critical readings to explore evolving personal style, aesthetic and social context, and theoretical issues. Laboratory fee.

23.380 Independent Filmmakers (3) Underground, experimental, avant-garde, radical, and personal films, usually short films made outside the established filmmaking industry. The freedom in the choice of subject matter and techniques, the variety of modes and styles, and the sheer intensity of works of Brakhage, Frampton, Belson, Warhol, Vertov, Dehnen, and scores of others destroy the myth that only commercial, feature-length films can be great. Laboratory fee.

23.390 Independent Reading Course in Literature (1-6)

23.392 Cooperative Education Field Experience (3-9)
See description under Cooperative Education in this publication.

23.400 Creative Writing: Fiction (3) A writing workshop with students reading their work aloud and commenting on one another's efforts. The teacher reserves the right to have the last word. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite:* 23.200 or equivalent or permission of instructor.

23.401 Creative Writing: Poetry (3) An intensive approach to the techniques of writing verse, followed by several weeks of workshop sessions in which students' poems receive responses from the entire class. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite:* 23.200 or equivalent or permission of instructor.

23.402 Creative Writing: Film Script (3) An introduction to writing developing stories for the screen. A study of the special contributions of the writer to film art. Screenings, reading, writing, and rewriting. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. Meets with 23.702. *Prerequisite:* permission of instructor.

23.403 Technical and Report Writing (3) An overview of the kinds of writing expected of scientists, social scientists, engineers, and other interpreters of technical information. Course work centers on intensive practice applying the principles of clear expression and effective rhetoric to reports, memoranda, manuals, and articles for technical journals. Meets with 23.703. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.405 Seminar on Translation (3) Designed primarily for writers, this course introduces students to the international community of writers by providing approaches to and models for the translation of literary works as well as experience in translating. It is expected that students will learn about the use of their own language in the process. Fluency in another language is helpful but not required. Usually offered every spring. Meets with 23.705.

23.490 Independent Study Project in Literature (1-6)

23.491 Practical Internship in Literature (3) Practical work in writing an research for various agencies and publications. Experience in apprentice teaching with private schools and diverse groups. Project must be approved in advance by department chair or undergraduate adviser. Usually offered every term.

23.498 Honors, Senior Year (3)

23.499 Honors, Senior Year (3)

Graduate and Advanced Undergraduate Course

23.525 Seminar in Literary History (3) Studies the identity of specific historical traditions; the ways in which such concepts as periodization affect our reading of literature; and how and why we determine the differences between periods, the identity of periods, and the major voices of a given period. Usually offered every fall. May be repeated for credit in the same term: topic must be different.

23.526 Seminar in Literary Theory (3) Provides a methodological basis for theoretical approaches to literary studies; focuses on critical issues in the study of literature; introduces graduate students and advanced undergraduates to basic questions surrounding the activity and discourse of literary research. Usually offered every spring. May be repeated for credit in the same term: topic must be different.

23.590 Independent Reading Course in Literature (1-6)

Graduate Courses

Note: 600-level courses in literature generally meet with 300-level courses. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

23.601 Development of the Novel (3) A study of the form of the novel in the West, from its beginnings on the European continent during the Renaissance (Cervantes and Madame de La Fayette), through the New Novel (Robbe-Grillet). Readings in representative novelists and critics of the genre.

23.603 The Short Story (3) Concentrates either on the evolution of the short story as a form, or on its characteristic shape in particular literary traditions (e.g., Eastern Europe) or at particular times (e.g., The Contemporary American Short Story). May be repeated for credit in the same term; topic must be different.

23.606 Topics in Folklore (3) Rotating topics, including ethnic folklore; occupational folklore; folklore and literature; women's folklore; folktales, ballads, and epics; the folklore of Ireland; storytelling and society; urban folklore; the folklore of Washington, D.C.; family folklore; and children's folklore. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

23.607 Drama: The Page and the Stage (3) Examples of major dramatic forms (tragedy, comedy, and tragicomedy) from the classical Greek period to the present. The plays are studied as drama and as cultural artifacts of the ages in which they were produced. Usually offered alternate falls.

23.608 Modern Drama (3) Modern drama as written literature, from Ibsen to the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc.

23.610 Major Authors (3) Intensive study of the works of one or more important authors. Attention is paid to the evolution of the author's canon, to the effects of (and on) the literary context, to the relationship between works and biography, and to the historical and cultural context of the writer. Usually offered at least once a year. May be repeated for credit in the same term: topic must be different.

23.615 Poetry in the Age of Whitman and Dickinson (3) Focus on the poems of Whitman and Dickinson, although other writers may be studied, in order to illuminate

the period. The course is not primarily historical, but aims at relating the background to the works of art. Close reading of individual texts is required. Usually offered alternate falls.

23.616 Nineteenth-Century American Novel (3) Emphasis on literary evolution of a form as it expresses historical evolution of national consciousness. Novelists studied include Hawthorne and Melville.

23.617 Emerson, Thoreau, and Twain: Nineteenth-Century American Prose (3) Readings in nonfiction, nonpoetic literature—essays, addresses, journals, lectures, etc.—of the nineteenth century. The work of Emerson and Thoreau is stressed. Usually offered alternate springs.

23.618 American Literary Realism (3) Characteristics of novels and short fiction in the realist and naturalist modes. Reading includes works by such writers as Henry James, Mark Twain, William Dean Howells, Kate Chopin, Stephen Crane, Theodore Dreiser, Edith Wharton, Robert Penn Warren, and Richard Wright. May be repeated for credit within the same term; topic must be different. Usually offered alternate falls.

23.620 Modern American Poetry, 1912-1950 (3) Detailed treatment of such established figures as Eliot, Stevens, Frost, Pound, and Williams. The poets chosen may differ from semester to semester, but at least two of these names appear in every session. Other poets may be considered at the discretion of the instructor. Usually offered alternate falls.

23.621 Faulkner and the Literature of the South (3) Readings in the novels, stories, poetry, and essays of the major figures (Southern Agrarians, Wolfe, W.A. Percy, and especially Faulkner) and their successors (O'Connor, Welty, and Walker Percy). Concern is with their art, with the social conditions in which they flourished, and their attitudes toward those conditions. Usually offered alternate falls.

23.622 Contemporary American Literature (3) Topics in American poetry and fiction since World War II. Examination of theories, forms, and strategies of recent fiction; theories, figures, and modes of recent poetry. May be repeated for credit within the same term; topic must be different. Usually offered every spring. *Note:* Students who have received credit for 23.623 Contemporary American Fiction may not take this course if the topic is fiction. Students who have received credit for 23.622 Contemporary American Poetry may not take this course if the topic is poetry.

23.625 Fitzgerald and Hemingway (3) A study of the fiction of Fitzgerald and Hemingway with emphasis on their common theme of loss. The relationship between them and their place in the literary period of the twenties and thirties is explored, but the main emphasis is thematic analysis of specific works.

23.630 Celtic Myth and Literature (3) Shows the vital importance of literature in all aspects of early Indo-European society—religion, magic, government, law, education, etc. Includes readings in history, archaeology, social structure, art, and myths, as well as major sagas and poems of Ireland and Wales.

23.631 Chaucer (3) A study of the narrative art and moral vision of Chaucer's poetry. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature.

23.632 Shakespeare Studies (3) Rotating topics on the works of William Shakespeare, including selected early plays, selected later plays and Shakespeare on film. May be repeated for credit within the same term; topics must be different. Usually offered every term. *Note:* Students who have received credit for 23.632 Shakespeare I may not take this course if the topic is Plays before 1600. Students who have received credit for 23.633 Shakespeare II may not take this course if the topic is Plays after 1600.

23.634 Literature of the Renaissance (3) Topics in Renaissance literary studies, including Renaissance drama other than Shakespeare (Christopher Marlowe, Ben Jonson, and others), Renaissance poetry with special emphasis on Sidney, Spenser, Donne, and the Metaphysical and Cavalier poets. May be repeated for credit within the same term; topic must be different. Usually offered alternate falls. *Note:* Students who have received credit for Renaissance Poetry may not take this course if the topic is poetry. Students who have received credit for 23.634 Renaissance Drama may not take this course if the topic is drama.

23.636 Milton (3) Milton as a thinker and a poet. Selections from the prose works are read and analyzed as background for Milton's thought. The majority of the semester is devoted to a close reading of the poems, which are studied with a view toward tracing Milton's development of form and his methods of projecting his world view.

23.637 Restoration and Eighteenth-Century Literature (3) Major writers and dominant forms in the Restoration and neoclassical tradition, including drama, prose fiction, and poetry, as well as essays and satires. Usually offered alternate springs. May be repeated for credit in the same term; topic must be different.

23.639 The Rise of the British Novel (3) A study of novels such as *Moll Flanders*, *Clarissa*, *Tom Jones*, *Tristram Shandy*, and *Emma*, which, with a variety of attitudes and narrative techniques, give images of how real people deal with themselves and others, and portray family life, street life, courtship difficulties, and moral dilemmas of seventeenth and eighteenth-century England.

23.640 Dickens to Conrad: The Nineteenth-Century British Novel (3) Authors such as Dickens and Hardy, titles such as *Vanity Fair*, *Middlemarch*, and *Wuthering Heights*, which explore people's attempts to deal with powerful social pressures, the attractions of money and success, characters' individual impulses and needs, and the eternal verities. Technique is studied, as well as theme and character.

23.641 The Romantic Imagination (3) Most offerings focus on central figures in the English Romantic movement (Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats), but some broaden the term *Romantic* to include writers from various periods and countries who see the imagination, rather than discursive reason, as the prime means of apprehending the truth behind phenomena. May be repeated for credit within the same term; topic must be different. Usually offered every fall.

23.643 Modern British Fiction (3) Topics in the Literature of Great Britain in the twentieth century including matters of technique, style, and social themes. Reading and discussion of such representative writers as Joyce, Lawrence, Forster, Woolf, Huxley, Fowles, Lessing, Hardy, Yeats, Edith Sitwell, Auden, Shaw, Maugham, O'Casey, Eliot, Behan, and Pinter. May be repeated for credit within the same term; topic must be different. Usually offered

every fall. *Note:* Students who have received credit for 23.643 Modern British Fiction may not take this course if the topic is fiction. Students who have received credit for 23.644 Modern British Poetry and Drama may not take this course if the topic is poetry and drama.

23.645 The Irish Renaissance (3) The works of Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty, and others are read, and the tradition they form is related to contemporary nationalist movements. Topics alternate between the prose fiction and the poetry and drama of modern Ireland. May be repeated for credit but not in the same term; topic must be different.

23.660 Medieval Literature (3) The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic and ethical values of medieval culture. Medieval epic drama, lyric, and romance in translation.

23.661 Directions in Modern Fiction (3) Fiction that embodies distinctive threads of the twentieth-century fiction of several nationalities (American, English, French, and German). Emphasis is on underlying philosophical-psychological premises reflected in the works, such as existentialism and myth, and on techniques and innovations such as stream of consciousness, point of view, and chronology.

23.663 French Literature (3) An introduction to French literature (fiction, drama, and poetry in translation) from the tenth century to the present. Among the writers treated are Chrétien de Troyes, Rabelais, Racine, Molière, la Rochefoucauld, Voltaire, Hugo, Balzac, Flaubert, Baudelaire, Proust, Malraux, and Robbe-Grillet.

23.665 The Political Novel (3) An investigation of how writers engaged political issues or the political process in fiction. Includes such works as Henry Adams's *Democracy*, Robert Penn Warren's *All the King's Men*, Emile Zola's *The Debacle*, George Orwell's *1984*, Arthur Koestler's *Darkness at Noon*, and Albert Moravia's *The Fancy Dress Party*. Usually offered alternate springs.

23.667 Russian and Soviet Literature (3) An introduction to Russian and Soviet literature, in translation, from the Middle Ages to the present.

23.668 Dostoevsky and Tolstoy (3) Intensive study of selected works of Dostoevsky and Tolstoy. Authors are treated individually with some comparison.

23.670 A Room of One's Own: Women and Literature (3) Women as writers of and characters in literature. The major issues dealt with are coming of age, sexuality, marriage, alternative roles, identity, motherhood, androgyny, and autonomy. Readings include works by both female and male authors—Woolf, Austen, Hardy, Hawthorne, Lessing, Drabble, Ibsen, and others.

23.675 Film and Literature (3) Adaptations of literature to film and film to literature. Themes and techniques shared among storytelling arts. Psychological, social, and political implications of analogous works of poetry, fiction, drama, and film. May be repeated for credit within the same term; topic must be different. Usually offered every fall. Laboratory fee.

23.676 National Cinema (3) Landmarks of the cinema from a particular country or region such as France, Italy, Eastern Europe, Japan, and the United States. Screenings, readings, and analysis, with attention to artistic movements, historical contexts, and clashing theories and

styles. May be repeated for credit in the same term; topic must be different. Laboratory fee.

23.677 Popular Film Genres (3) The traditions, conventions, and outstanding films and filmmakers of a popular genre such as comedy, the western, the thriller, the musical, the gangster film, science fiction, detective, and horror movies. Screenings, readings, discussions, and written analyses. Usually offered every fall. May be repeated for credit in the same term; topic must be different. Laboratory fee.

23.678 Major Filmmakers (3) Intensive study of one or two great directors such as Hitchcock, Antonioni, Fellini, Kurosawa, Ozu, Chaplin, Bergman, and Ford. Screenings, analyses, and critical readings to explore evolving personal style, aesthetic and social context, and theoretical issues. Laboratory fee.

23.680 Independent Filmmakers (3) Underground, experimental, avant-garde, radical, and personal films, usually short films made outside the established filmmaking industry. The freedom in the choice of subject matter and techniques, the variety of modes and styles, and the sheer intensity of works of Brakhage, Frampton, Belson, Warhol, Vertov, Dehn, and scores of others destroy the myth that only commercial, feature-length films can be great. Laboratory fee.

23.690 Independent Study Project in Literature (1-6)

23.691 Graduate Internship (1-6) Practical experience in positions making use of the students' writing and organizational skills. Internships are arranged and supervised by a member of the department; consult department office. Required of M.F.A. candidates; open to other graduate students in the department. Usually offered every term. May be repeated for credit, but not in the same term. *Prerequisite:* graduate standing in the department.

23.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

23.700 Advanced Fiction Workshop (3) A writing workshop with students reading their work aloud and commenting on one another's efforts. The teacher reserves the right to have the last word. Graduate students are expected to submit 12,500 words or more. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term.

23.701 Advanced Poetry Workshop (3) An intensive approach to the techniques of writing verse, followed by several weeks of workshop sessions in which students' poems receive responses from the entire class. With permission of instructor may be repeated for credit once, but not in the same term; topic may be the same. Usually offered every term.

23.702 Creative Writing: Film Script (3) An introduction to writing developing stories for the screen. A study of the special contributions of the writer to film art. Screenings, reading, writing, and rewriting. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. Meets with 23.402.

23.703 Technical and Report Writing (3) An overview of the kinds of writing expected of scientists, social scientists, engineers, and other interpreters of technical information. Course work centers on intensive practice applying the principles of clear expression and effective rhetoric to reports, memoranda, manuals, and articles for technical

journals. Meets with 23.403. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.705 Seminar on Translation (3) Designed primarily for writers, this course introduces students to the international community of writers by providing approaches to and models for the translation of literary works as well as experience in translating. It is expected that students will learn about the use of their own language in the process. Fluency in another language is helpful but not required. Usually offered every spring. Meets with 23.405.

23.710 The Art of Literary Journalism (3) A workshop in which the craft of reviewing books, plays, movies, TV, art, and music is practiced. Speakers who are professionals in each craft are invited to class. Clear expository writing is the aim, tied to established criteria for sound critical approaches in journalism. Usually offered every spring. Meets with 23.410.

23.725 Studies in Genre (3) Graduate seminar. A study of various kinds of literary expression. Topic changes yearly. Previous topics have been the comic vision, short American fiction, the introspective novel, formal theory of the novel, and tragedy. May be repeated for credit in the same term; topic must be different. Usually offered every term.

23.726 Studies in Major Writers (3) Graduate seminar. A study of the works of one or two selected writers. Topic changed yearly. Previous topics have been Shakespeare, Keats, Dickens, Whitman, Eliot, Yeats, and Melville. May be repeated for credit in the same term; topic must be different. Usually offered every term.

23.750 The Folger Seminar in Renaissance and Eighteenth-Century Studies (3) Each semester three graduate seminars are offered. Graduate students at The American University are eligible to participate and should consult the Department of Literature. May be taken more than one semester.

23.797 Master's Thesis Seminar (1-6)

Public Financial Management

Graduate Courses

28.604 Public Management (3) This introduction to public administration focuses on the problems of management in public agencies; the activities of public managers, the different settings and tasks of government agencies, the administrative methods and strategies used by public managers, and the applicability of these methods under different conditions. *Prerequisite:* approval by the Center for Public Financial Management.

28.606 Managerial Macroeconomics (3) Study of methods of macroeconomic measurement, and the development of analytical methods for examining applied issues of national income determination, money markets and interest rates, and investment, spending, and saving behavior in the private and public sectors. *Prerequisite:* approval by the Center for Public Financial Management.

28.608 Accounting and Budgeting for Public Managers (3) Premises, principles, and procedures for financial accounting for industry and federal and local government. Accounting for decision making in students' organizations. Emphasis on viewpoints of users, especially operating and budget officials. Discussion of budgeting and auditing functions is integrated into accounting lectures and illustrations.

Current financial-management priorities of government are also discussed. Usually offered every spring. *Prerequisite:* approval by the Center for Public Financial Management.

28.610 Public Finance (3) This course develops a theoretical basis and a working knowledge of techniques needed to examine and evaluate public-sector activity. Topics include the role and size of the public sector, budget determination and forecasting, public expenditure evaluation and revenue structure, and intergovernmental relations. The course may include topics in development finance and debt management. *Prerequisite:* approval by the Center for Public Financial Management.

28.612 Managerial Microeconomics (3) Tools of economic analysis as applied to individuals and to businesses and other organizational economic entities. Fundamental concepts of resource allocation and income distribution are developed, with specific applications for policy issues, such as those relating to public sector growth, market structures, urban change, government regulation, and pricing and output behavior of the firm. *Prerequisite:* approval by the Center for Public Financial Management.

28.614 Human Behavior and Leadership for Public Managers (3) This course focuses on the leadership capabilities of each student, with emphasis on self-assessment of managerial competence and applications to organizational needs. Students explore subjects such as managerial and supervisory functions, motivation and job design, meetings and small-group behavior, interorganizational relationships, communications, and interpersonal effectiveness. *Prerequisite:* approval by the Center for Public Financial Management.

28.616 Quantitative Methods I (Probability and Statistics) (3) Introduction to basic mathematical and statistical methods used in the solution of managerial problems. Basic concepts of descriptive statistics and probability theory are developed, including such topics as distribution of measurements, measures of central tendency and variability, random variables, and probability distributions. Primary focus is on the statistical inference. Students are introduced to computer statistical packages. Specific applications are made to problems encountered in government. *Prerequisite:* approval by the Center for Public Financial Management.

28.617 Quantitative Methods II (Scientific Decision-Making) (3) Introduction to quantitative techniques useful to decision-makers in analyzing and solving business and government problems. These techniques include linear programming, forecasting, decision theory, inventory control, queuing theory, and simulation processes. Emphasis is on applying theory in solving practical problems. Use of the computer to assist in solving problems is emphasized. *Prerequisite:* approval by the Center for Public Financial Management.

28.618 Political Dynamics of Public Administration (3) Decision-making processes in governmental policy making. Relationships of national, state, and local governments. The interaction of politics and administration at all levels of government. Students trace political and administrative issues through the intergovernmental system with applications to their own organizations. *Prerequisite:* approval by the Center for Public Financial Management.

28.620 Public Program Evaluation (3) Techniques for evaluating the effectiveness of public programs. General criteria used to judge programs, including effectiveness,

efficiency, responsiveness, and equity; trade-offs between criteria. Use of survey research, experiments, quasi experiments, and nonexperimental methods in the design of needs assessments and impact evaluations. Students apply tools of program evaluation in areas of their own organizations' interest. *Prerequisite:* approval by the Center for Public Financial Management.

28.621 Research Methods (3) Practical applications of scientific research principles and techniques. Analytical and logical methods are followed in characterizing research, selecting and developing a governmental research problem, designing the research strategy, researching documentary sources, and developing the outline. The objective is to develop an infrastructure for the research project and to choose from the methodologies of research most suited for individual students needs. *Prerequisites:* approval by the Center for Public Financial Management.

28.622 Project in Managerial Problem Solving (3) Designed to give students one-on-one supervision and guidance for completing their master's thesis project. Students are individually assigned to a faculty member appointed by the director in accord with their expertise and knowledge in a particular field. Upon completion and presentation of the project report, the faculty adviser submits a final grade for the course. Successful performance in practical financial management projects is an essential ingredient of the program and a major factor in obtaining the degree. *Prerequisite:* approval by the Center for Public Financial Management.

28.623 Computer Applications for Public Managers (3) The relationship of computers to public administration functions. Emphasis on applications. Current and future computer technology and its effect on managers in the public sector. Privacy, security, human factors, resource management, budgeting and cost control, and computer-resource selection. *Prerequisite:* approval by the Center for Public Financial Management.

28.624 Procurement and Federal Assistance (3) This course covers the procurement and assistance processes as presently practiced by the federal government. It includes intergovernmental relationships and the statutory and procedural framework within which contracts, grants, and cooperative agreements are awarded, received, and administered. *Prerequisite:* approval by the Center for Public Financial Management.

28.625 Microcomputing Workshop for Public Managers (3) The course provides students with in-depth micro-computer skills that can be readily applied to the modern workplace. The course also explores end-user computing issues from a federal-government perspective. *Prerequisite:* 28.623.

28.690 Independent Study Project in Applied Public Financial Management (1-6)

29.102 Classical Archaeology: History and Practice (3) A survey of the development of old-world archaeology from its romantic past to a scientific discipline through an examination of the most important discoveries and modern techniques of excavation; the meaning, method, and fields of archaeological work are examined as a measure of human interest in the past. Offered only in Rome. Usually offered every term.

29.110 Renaissance and Revolutions: Europe, 1400-1815 / A 2:1 (3) The political, economic, and cultural emergence of Europe into world leadership during the period 1400-1815, stressing the problems of building or rebuilding political and social order, including the attempts to spread European civilization to other parts of the world. Usually offered every term. *Note:* not open to students who have taken 29.106 History of Modern Europe I.

29.111 Nationalism and Industrialization: Europe Since 1815 / A, S (3) Survey of the years from 1815 to the present. The world-wide consequences of nationalism combined with industrialization; the conflict between middle-class domination and awakening working-class consciousness; technology run wild; retreat from reason; and two world wars as the bases for understanding today's shrunken Europe and the warring in ex-colonial lands. Usually offered every term.

29.115 Work and Community / S 2:1 (3) In key historical contexts such as the industrial revolution, the development of New World plantations, and the transformation of farming, this course explores the changing relations between work and community. When have people found the opportunity to exert autonomy and creativity at work? How have evolving work relations influenced household composition, family roles, and cultural traditions? Usually offered every term.

29.120 Imperialism and Revolution / S 3:1 (3) The impact of imperialism and revolution since the nineteenth century on Asia, Africa, and Latin America. Analyzes theories of imperialism and Western stimulation of nationalism, revolution, racial confrontation, and cultural and demographic transformation. Concentrates particularly on China, Vietnam, and Cuba. Identifies patterns of poverty, instability, and conflict in the "developing" world. Usually offered every spring. *Note:* not open to students who have taken 29.105 Twentieth-Century World II.

29.200 Italian Civilization / A 2:2 (3) The course introduces students to some of the major aspects of Italian culture and civilization. It includes a survey of the history of the city and a discussion of the major developments in its art and architecture. Other topics of discussion include Italian opera and Italian geography. Course supplemented by study tours to cultural sites and monuments. Offered only in Rome. Usually offered every term. *Prerequisites:* for General Education credit: 07.100 or 23.115 or 61.105.

29.201 The Italian Renaissance (3) A survey of Renaissance culture and history. Relations between Italian city-states, the rebirth of classical humanism, the role of the Church and the papacy, the growth of economic institutions, urban development, and political philosophy. Offered only in Rome. Usually offered every term.

29.202 The Ancient World: Greece (3) From Minoan Crete through Alexander the Great. Literary and artistic masterpieces in their historical settings. Emphasis on ancient sources. Usually offered every fall.

29.203 The Ancient World: Rome (3) From the Etruscans through Constantine. The interplay of consti-

History

Undergraduate Courses

29.100 Historians and the Living Past / S 2:1 (3) Explores the theory and practice of the study of the past. Focuses on the ways in which our thinking is affected by our beliefs about the past; we reconstruct, explain, and evaluate past events; we organize knowledge about the past; and we analyze and evaluate the "lessons of the past." Usually offered every fall.

tution and empire, and the changing views of ethical conduct. Emphasis on ancient sources. Usually offered every spring.

29.204 Medieval Europe (3) Exploration of the medieval world-view and consideration of the organization of economic and political institutions, the relationship of secular and ecclesiastical authority, and the creation of new social and religious ideals during the millennium that bridges antiquity and modernity.

29.205 America's Quest for the Good Society, 1607-1865 /A 2:2 (3) The sense of a better America as a beacon for world reform was a powerful impulse during the nation's colonial and formative years. The course pursues through investigation of selected cases the theme of America as a model society in quest of its own and other nation's redemption. Usually offered every term. *Prerequisite for General Education credit:* 29.110 or 53.105. *Note:* not open to students who have taken 29.207 History of the U.S.I.

29.206 America's Quest for the Good Society since 1865 (3) American history from the end of the Civil War to the present. Modernization of America and resulting problems. Growth of U.S. power in international affairs. Roots and development of social and political change in America. Usually offered every term. *Note:* not open to students who have taken 29.208 History of the United States II.

29.210 Ethnicity in America /S 4:2 (3) This interdisciplinary course explores how ethnicity has shaped American institutions and behavior patterns from 1607 to the present. Largely a nation of immigrants, this country's ethnic groups reflect the racial, religious, and national characteristics of those who migrated here, whether voluntarily or as slaves. Topics include ethnicity's influence on family, politics, civil rights, and foreign policy. Usually offered every spring. *Prerequisite for General Education credit:* 03.150 or 65.100. *Note:* not open to students who have taken 29.210 Ethnic Experience in America.

29.214 American Cultural History (3) The major trends in American cultural history from the seventeenth century to the present, touching on representative figures in literature, art, music, and material culture as well as some major interpretations of American cultural history, such as those of Alexis de Tocqueville, Thorstein Veblen, and David Potter. Slide presentations, films, and field trips around Washington are included.

29.215 Social Forces That Shaped America /S 2:2 (3) The history of race, class, and gender in the United States from the war for independence to the present. The focus is on how these forces existed and continue to exist as intersecting material realities and contributors to the social attitudes held by residents of the United States. Usually offered once a year. *Prerequisite for General Education credit:* 76.150 or 29.115.

29.220 Women in Modern America /S 4:2 (3) Change and continuity in the experience of American women from the mid-nineteenth century to the present. Social and political movements of special concern to women, including suffrage, birth control, woman's liberation, and contemporary antifeminism. A multidisciplinary perspective; both primary and secondary readings. Usually offered every spring. *Prerequisite for General Education credit:* 53.110 or 73.100. *Note:* not open to students who have taken 29.209 Women in Twentieth-Century America.

29.221 History of England I (3) Political, social, and cultural development in England to 1689. Parliament,

common law, civil war, plague, rebellion, concepts of kingship, and the conflict of church and state. Usually offered every fall.

29.222 History of England II (3) Great Britain since 1689. The rise and fall of the British Empire, cabinet government and limited monarchy, working-class politics and the welfare state, industrialization, and mass culture. Usually offered every spring.

29.225 Russia: Past and Present /A 3:2 (3) Russia has been termed a "riddle wrapped in a mystery inside an enigma." An examination of the major influences that have shaped Russia helps solve this mystery. Influences include geography, autocracy, social and multi-ethnic composition, economics, relations with the West, and the ideologies of Orthodoxy, nationalism, and Marxism. Usually offered every spring. *Prerequisite for General Education credit:* 33.120 or 29.120.

29.230 Early Russian History, 988-1700 (3) The first state, Kiev Rus, the impact of the Tatar Yoke, and the emergence of Muscovite Russia. Topics include the growth of Tsarist autocracy, the enslavement of the peasantry, the role of the Russian Orthodox church, and Russia's relations with the West.

29.231 Imperial Russia, 1700-1917 (3) Survey of Imperial Russian history with emphasis on the Romanov Tsars, peasantry, growth of industry, cultural developments, emergence of the revolutionary movements, expansion of the state, and foreign policy.

29.232 Soviet Union, 1917 to Present (3) The Tsarist heritage, Russian Marxism, the revolutions of 1917, the civil war, the New Economic Policy, rise of Stalin, the industrialization and collectivization of the 1930s, the Second Patriotic War, death of Stalin, the Khrushchev era, the Brezhnev regime, and Soviet culture. Usually offered every term.

29.235 The West in Crisis, 1900-1945 /S 2:2 (3) The West, earlier this century, experienced world wars, the Great Depression, America's New Deal, and communist and Nazi revolutions and dictatorships. This course shows how crises and wars emerged from a conflicted Western heritage, and how communism, fascism, and the New Deal were variant responses to problems of modernity and progress emanating from different national histories. Usually offered every fall. *Prerequisite for General Education credit:* 29.100 or 29.110. *Note:* not open to students who have taken 29.104 Twentieth-Century World.

29.238 France since Napoleon (3) Amid recurring revolutions and military disasters, France has struggled to find a stable form of government. The course investigates political experimentation, social conservatism, and cultural innovation in France since 1815. Topics include the legacy of the French Revolution, the expansion of Paris, colonial empire, Nazi occupation, and De Gaulle's leadership.

29.239 Modern Germany since 1848 (3) The revolutions of 1848 failed to unify Germany. Bismarck and the Prussian army succeeded. The new Germany produced Prussian militarism, socialism, youth movements, and the unsuccessful Weimar Republic. Hitler's Germany; World War II; Germany divided. Usually offered alternate years.

29.241 Colonial Latin America (3) Conquest and change in Indian civilization; imperial politics; race and class; Indian labor and the Black legend; imperial economic

relations; imperial reform and revolution. Usually offered every fall.

29.242 Latin America since Independence (3) Problems in creating nations; militarism, dictatorship, and democracy; sources of underdevelopment; reform and revolution in the twentieth century. Usually offered every spring.

29.250 Civilization and Modernization: Asia /S 3:2 (3) This course compares the great civilizations of China, India, and Japan; their interaction with the West; and their transformation from the nineteenth century. It thoroughly analyzes modernization and why Asian societies changed so differently; why revolutions wracked China and communism triumphed; how Japan emerged as a premier industrial state; and how India balances tradition, modernity, and democracy. Usually offered every spring. *Prerequisite for General Education credit:* 23.150 or 61.185. *Note:* Not open to students who have taken 29.250 Modern Asia.

29.260 To Arms: People and Nations at War /S 3:2 (3) War as an enduring historical phenomenon. The causes of war in the past and how wars have been justified by nations and experienced by persons and peoples. Changing attitudes toward war, alternatives to it, and its possible future. Usually offered alternate springs. *Prerequisite for General Education credit:* 29.120 or 33.120. *Note:* Not open to students who have taken 29.260 "Arms and the Man".

29.261 The Work of Peace in American History (3) How is peace between nations attained? Through case studies in United States history, broad historical forces, the quiet work of diplomacy, and the pressures of popular activism are explored as causes of peace. Attention is given to peace, gained and lost; and to crises resolved short of war.

29.270 How to Think: Critical Analysis in the Social Sciences (3) The basic conceptual tools necessary for mastering a discipline or thinking for oneself. How to analyze a book or article. How to frame questions. How to prove something.

29.280 Cities: Cradles of Civilization (3) Urban development from Ur to the present. Emphasis on physical planning, the city as a creative environment, economic development, and the city's role in history.

29.281 The Rise of the American City (3) The American city's physical and political development from the seventeenth century frontier to the present. Its role in the formation of our society, culture, and economy, with special emphasis on American attitudes towards the city as reflected in housing policy, suburbanization, and in literature, film, and city-planning policy.

29.300 Ancient Studies (3) Topical courses in ancient history: Greece in the age of Tyrants; Classical Greece; Ancient Sparta; Alexander the Great; the Burden of Success—the Failure of the Roman Republic; Principate to Patriarchy—the Roman Empire; Causes of War in Antiquity; Major Personalities of Classical Antiquity; Silent Peoples of Antiquity—Women, Children, and Slaves; Espionage in the Ancient World. May be repeated for credit in the same term; topic must be different.

29.314 Eastern Europe since 1815 (3) The effects of nationalism, the fate of the peasantry, ethnic hostilities, World War I, the emergence of nation-states, and the Soviet domination of Eastern Europe. Usually offered alternate years.

29.317 Weimar Germany (3) This is the Germany described in the movie *Cabaret*. Cultural and political themes are stressed. Thomas Mann, Bertolt Brecht, Marlene

Dietrich, Rosa Luxemburg, General Hindenburg, and Adolf Hitler are among the major figures. Expressionism, communism, and fascism confront the republican establishment.

29.318 Nazi Germany (3) The political, social, and economic conditions that made it possible for Hitler to take power. The nature of Nazi rule. World War II from the Nazi side and the Holocaust from that of the Jews. Usually offered every spring.

29.320 War and Diplomacy: Napoleon to World War I (3) The course describes and interprets Napoleonic wars and diplomacy; the Congress of Vienna; the Concert of Europe; the revolutions of 1820, 1830, and 1848; the Crimean War; the conflicts of Italian and German nationalism; Bismark's diplomatic system; imperialism; the partition of Africa; rivalries in Asia; Balkan conflicts; and the making of World War I.

29.321 War and Peace, 1914-1945 (3) The two world wars and their backgrounds of revolution and depression are focal points for explaining the origins of wars and the failure of peace in modern civilizations. Specific topics include World War I; peace-making at Versailles; the Great Depression; the rise of the Nazis, Fascists, and Communist Russia and their foreign policies; the German blitzkrieg in World War II; subsequent allied victories; and attempts to create a "brave new world."

29.326 European Society in the Nineteenth and Twentieth Centuries (3) Relationships between traditional social groups and the emergence of new classes, cultural patterns, and aspirations. The effect of altered birth and death rates, urbanization, technology, education, and other forces stimulating change. New grievances, mass culture, and the growth of alienation. Interest groups, the consumer society, and the "New Europe."

29.327 Twentieth-Century Europe (3) In this century Europe has experienced two major wars, a wave of communist revolution, a violent reaction in the form of fascism, and the horror of mass extermination. Yet Europe today is quite prosperous, and there are better links between the Western countries and their communist counterparts than could be imagined two decades ago. There is something in Europe's past that gives it a certain resilience.

29.329 European Thought and Ideology (3) Rotating topical and chronological studies. Examples are European Communism and European Liberalism.

29.331 Modern Revolutions (3) The theory, patterns, and practice of twentieth-century revolutions, and the revolutionary tradition stemming from the Enlightenment, French Revolution, and Marxism. Detailed treatment of the Russian, Nazi, Chinese, Vietnamese, and Cuban revolutions, and consideration of the effect of revolutions and the revolutionary potential of modern industrial societies.

29.332 Contemporary Historical Studies (3) Rotating topics, including Democracy and Totalitarianism; Imperialism, Racism, and the Third World; Psychohistory; Political Assassinations in Europe; Death in History; Madness in History; History of Sexuality; Women in European History. May be repeated for credit in the same term; topic must be different.

29.333 Tudor-Stuart England (3) England in the sixteenth and seventeenth centuries. Topics include the Protestant Reformation in England, the conflict between King and Parliament, the Civil War, Puritanism, and the Glorious Revolution.

29.334 Victorian England (3) Examines the many threats to traditional beliefs and social patterns that emerged in the nineteenth century. Subjects include the effect of Darwinism on religion, the emergence of working-class politics, the campaign for female suffrage, discontent in Ireland, and the growth of empire.

29.335 Twentieth-Century England (3) Has England become a third-rate power? The course analyzes England's changing status in the twentieth century; the rise of the Labour Party, the depression, World War II, loss of empire, and contemporary British culture.

29.336 History of Ireland (3) Survey of Irish history from the Gaelic invasions to the present, focusing on the development of Irish cultural and national identity.

29.337 British Studies (3) Rotating topics, including Hanoverian England, Edwardian England, the British Working-Class Experience, Popular Culture in Modern Britain, and Popular Rebels in Britain. May be repeated for credit in the same term; topic must be different.

29.340 Latin American Studies (3) Rotating topics, including Diplomatic History of Latin America, Twentieth-Century Diplomacy of the Great Powers of Latin America, and Latin American Intellectual History. May be repeated for credit in the same term; topic must be different.

29.345 Russian Studies (3) Rotating topics, including Russian Social History; Russian Revolutionary Tradition; USSR: Dissidents and Dictators; Russia and the West, 1472-1900; Russia in War and Revolution, 1855-1917; Twentieth-Century Russian Diplomacy; Lord and Peasant; and Nineteenth-Century Russian Literature and Society. May be repeated for credit in the same term; topic must be different.

29.347 Asian Studies (3) Topical courses in Asian history: China: from the Manchus to Mao; History of Japan; and India and the West. May be repeated for credit in the same term; topic must be different.

29.350 Colonial America (3) 1492 to 1763. The founding and development of England's North American colonies, emphasizing the original impulses and methods of colonization; Indian peoples and conflict; non-English immigration; the genesis and African background of the slave trade and slavery; and the creation of a dominant English culture in an ethnically and racially diverse society.

29.351 Era of the Revolution and Constitution (3) The political and social history of the American Revolution, emphasizing such topics as the genesis of the revolutionary conflict, the revolution as a "republican revolution," the revolution's ideological and social results and their effect abroad, and the formation of the Constitution as the revolution's finest transforming accomplishment.

29.352 The Era of the New Republic, 1789-1850 (3) The new republic's political consolidation during its first critical decades; its physical, economic, and political transformation by continental expansion; the transportation and industrial revolutions and the creation of a mass democracy; and the first confrontations over slavery in 1832-33 and 1848-50.

29.353 Civil War and Reconstruction (3) Chronological coverage from the Compromise of 1850 to the final withdrawal of federal troops from the South in 1877. Topics include antebellum reform, sectional conflict, black slavery, secession, and postwar racial and political problems. Political and social issues are emphasized, rather than a

narrative of battles and skirmishes. Usually offered alternate falls.

29.354 The South since Reconstruction (3) The theme is the South's struggle with the issues of integration, separation, and self-definition since the Civil War. Reconstruction and redemption, race relations, violence, the rise and fall of the "Solid South," and the "New South" of Jimmy Carter. Usually offered alternate springs.

29.355 Emergence of Modern America, 1877-1920 (3) The course considers themes in the modernization of America: the rise of corporations and cities, the influx of immigrants from southern and eastern Europe, and the advent of the new diplomacy and imperialism. Populism and progressivism.

29.356 Twentieth-Century America (3) Life in the twentieth century is different from all other periods of our past. To understand why requires an examination of the explosion of science and technology, the growth of government, America's increasing involvement in the world, the multiplication of protest and liberation movements, the new politics, and neo-Keynesian economics.

29.357 America between the Wars, 1919-1941 (3) Following a decade of stability and prosperity, the dislocations caused by the Great Depression disrupted the lives and shook the institutions of the American people, leading to unprecedented political and cultural experimentation. Emphasizing both the contrasts and continuities between the 1920s and 1930s, the course investigates the patterns of political, social, cultural, economic, and intellectual life during the interwar period, with special emphasis on the tensions between radical and conservative tendencies.

29.361 World War II: The Global Experience (3) World War II examined from a global perspective. Attention is given to leaders; Allied and Axis war strategies, battles, and tactics; the occupation policies of Nazi Germany and Japan; economic warfare; innovations in weaponry; the impact of the war on imperialism, nationalism, and communism; and the allied diplomacy that shaped the post-war world.

29.362 World War II: The American Experience (3) How the United States got into World War II; its diplomatic strategy and decisions. United States military efforts and leadership. The experience of G.I. Joe. Society and politics at home. The end of the war and the approach of the Cold War. Films, television, tapes, and guest speakers. Usually offered alternate years.

29.363 Other Wars: Cold, Korean, and Vietnam (3) Origins and development of the Cold War. Revolution of American diplomacy in the Truman administration (Truman Doctrine, Marshall Plan, and NATO). Korean War. Cuban missile crisis. The Vietnam war. Diplomacy, military history, and strategy; dissent; and the Cold War's impact on society at large. Visual media and guest speakers. Usually offered alternate years.

29.364 Twentieth-Century United States Response to Revolution (3) Every twentieth-century president has been compelled to respond to a modern revolutionary movement. This course focuses on American foreign policy in a revolutionary world, including consideration of the perception of revolution in Washington; revolutions in Mexico, Russia, China, Cuba, and Iran; and "Wars of National Liberation."

29.366 Presidents of the United States I (3) American presidents from Washington through Andrew Johnson.

The course concentrates on how major and minor presidents have used presidential power to deal with national problems; how they conceived of the presidency; and the roles of personality, political values, and constitutional and political constraints. Usually offered every fall.

29.367 Presidents of the United States II (3) American Presidents from Andrew Johnson to Ronald Reagan. The course concentrates on how modern Presidents have used the power of the Presidency to deal with national problems, the rise of the Imperial Presidency, congressional resurgence, and the major Presidents of the twentieth century. Usually offered every spring.

29.368 Great Ideas in American History: American Thought from Puritanism to the Counter-Culture (3) The course examines the works of great American thinkers from the seventeenth century to the present, including Roger Williams, Jonathan Edwards, Jefferson, John C. Calhoun, Thoreau, Melville, Sumner, Henry Adams, William James, B.F. Skinner, and Lewis Mumford. They are placed in their philosophical, religious, and cultural contexts.

29.370 Quantification in History (3) An exploration of the application of statistical procedures as they affect historical research. Includes both theory and historical examples. No mathematical or statistical experience required.

29.371 Ideology, Culture, and American Politics (3) How have American political leaders justified their objectives? How have popular beliefs and attitudes been reflected in the American political system? This course, concentrating on the twentieth century, explores the relationship between American political life on the one hand and ideas and popular persuasions on the other.

29.374 Labor and Business in United States History (3) This course focuses on the history of work over the last 200 years. Topics include the rise of the modern corporation, technology, and the workplace; the changing "work ethic"; labor unions and labor politics; and industrial relations in the post-industrial economy.

29.375 The Radical Tradition in the United States (3) The history of the left and radical social movements of workers, farmers, women, and blacks since the 1770s.

29.377 Public Policy in United States History (3) This course reappraises the history of public policy and its effect on the development of modern America from the early nineteenth century to the present, focusing on the government's role in continental expansion; in business and labor policies; in the Progressive Era; in response to the Great Depression; and in the assumption of international obligations.

29.384 Historical Editing (3) The course begins with the history of documentary editing and then gives the student experience in authentication and selection, annotation, and the presentation of historical documents. The student locates a collection of manuscripts, and makes a selection to produce a publishable mini-edition.

29.390 Independent Reading Course in History (1-6)

29.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication

29.480 Major Seminar I (3) Methods and materials of historical research and writing, with emphasis on resources in the Washington area. Students design and

outline research topics based in part on the use of primary sources. Required of all history majors. Normally followed by 29.481. Offered every fall. *Prerequisite:* senior or second-semester junior standing.

29.481 Major Seminar II (3) Completion of a substantial research paper based in part on the use of primary source materials. Required of all history majors. Offered every spring. *Prerequisite:* senior standing and 29.480.

29.490 Independent Study Project in History (1-6)

29.491 Internship (1-6) Usually offered every term.

Graduate and Advanced Undergraduate Courses

29.500 Studies in History (3) Rotating topics, including Twentieth-Century European Studies, Nineteenth- and Twentieth-Century Russian and Soviet Studies, English and British Studies, Ancient Studies, American Political Studies, American Social Studies, American Cultural Studies, American Diplomatic Studies, and American Military Studies. *Prerequisite:* advanced undergraduate or graduate standing

29.590 Independent Reading Course in History (1-6)

Graduate Courses

Note: Courses numbered 29.600 through 29.684 generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

29.600 Ancient Studies (3) Typical courses in ancient history: Greece in the Age of Tyrants; Classical Greece; Ancient Sparta; Alexander the Great; the Burden of Success—the Failure of the Roman Republic; Principate to Patriarchy—the Roman Empire; Causes of War in Antiquity; Major Personalities of Classical Antiquity; Silent Peoples of Antiquity—Women, Children, and Slaves; Espionage in the Ancient World. May be repeated for credit in the same term; topic must be different.

29.614 Eastern Europe since 1815 (3) The effects of nationalism, the fate of the peasantry, ethnic hostilities, World War I, the emergence of nation-states, and the Soviet domination of Eastern Europe. Usually offered alternate years.

29.617 Weimar Germany (3) This is the Germany described in the movie *Cabaret*. Cultural and political themes are stressed. Thomas Mann, Bertolt Brecht, Marlene Dietrich, Rosa Luxemburg, General Hindenburg, and Adolf Hitler are among the major figures. Expressionism, communism, and fascism confront the republican establishment.

29.618 Nazi Germany (3) The political, social, and economic conditions that made it possible for Hitler to take power. The nature of Nazi rule. World War II from the Nazi side and the Holocaust from that of the Jews. Usually offered every spring

29.620 War and Diplomacy: Napoleon to World War I (3) The course describes and interprets Napoleonic wars and diplomacy; the Congress of Vienna; the Concert of Europe; the revolutions of 1820, 1830, and 1848; the Crimean War; the conflicts of Italian and German nationalism; Bismarck's diplomatic system; imperialism; the partition of Africa; rivalries in Asia; Balkan conflicts; and the making of World War I.

29.621 War and Peace, 1914-1945 (3) The two world wars and their backgrounds of revolution and depression are focal points for explaining the origins of wars and the failure of peace in modern civilizations. Specific topics include World War I; peace-making at Versailles; the Great Depression; the rise of the Nazis, Fascists, and Communist Russia and their foreign policies; the German blitzkrieg in World War II; subsequent allied victories; and attempts to create a "brave new world."

29.626 European Society in the Nineteenth and Twentieth Centuries (3) Relationships between traditional social groups and the emergence of new classes, cultural patterns, and aspirations. The effect of altered birth and death rates, urbanization, technology, education, and other forces stimulating change. New grievances, mass culture, and the growth of alienation. Interest groups, the consumer society, and the "new Europe."

29.627 Twentieth-Century Europe (3) In this century Europe has experienced two major wars, a wave of communist revolution, a violent reaction in the form of fascism, and the horror of mass extermination. Yet Europe today is quite prosperous, and there are better links between the Western countries and their communist counterparts than could be imagined two decades ago. There is something in Europe's past that gives it a certain resilience.

29.629 European Thought and Ideology (3) Rotating topical and chronological studies. Examples are European Communism and European Liberalism.

29.631 Modern Revolutions (3) The theory, patterns, and practice of twentieth-century revolutions, and the revolutionary tradition stemming from the Enlightenment, French Revolution, and Marxism. Detailed treatment of the Russian, Nazi, Chinese, Vietnamese, and Cuban revolutions, and consideration of the effect of revolutions and the revolutionary potential of modern industrial societies.

29.632 Contemporary Historical Studies (3) Rotating topics, including Democracy and Totalitarianism; Imperialism, Racism, and the Third World; Psychohistory; Political Assassinations in Europe; Death in History; Madness in History; History of Sexuality; Women in European History. May be repeated for credit in the same term; topic must be different.

29.633 Tudor-Stuart England (3) England in the sixteenth and seventeenth centuries. Topics include the Protestant Reformation in England, the conflict between King and Parliament, the Civil War, Puritanism, and the Glorious Revolution.

29.634 Victorian England (3) Examines the many threats to traditional beliefs and social patterns that emerged in the nineteenth century. Subjects include the effect of Darwinism on religion, the emergence of working-class politics, the campaign for female suffrage, discontent in Ireland, and the growth of empire.

29.635 Twentieth-Century England (3) Has England become a third-rate power? The course analyzes England's changing status in the twentieth century: the rise of the Labour Party, the depression, World War II, loss of empire, and contemporary British culture.

29.636 History of Ireland (3) Survey of Irish history from the Gaelic invasions to the present, focusing on the development of Irish cultural and national identity.

29.637 British Studies (3) Rotating topics, including Hanoverian England, Edwardian England, the British Working-Class Experience, Popular Culture in Modern

Britain, and Popular Rebels in Britain. May be repeated for credit in the same term; topic must be different.

29.640 Latin American Studies (3) Rotating topics, including Diplomatic History of Latin America, Twentieth-Century Diplomacy of the Great Powers of Latin America, and Latin American Intellectual History. May be repeated for credit in the same term; topic must be different.

29.645 Russian Studies (3) Rotating topics, including Russian Social History; Russian Revolutionary Tradition; USSR: Dissidents and Dictators; Russia and the West, 1472-1900; Russia in War and Revolution, 1855-1917; Twentieth-Century Russian Diplomacy; Lord and Peasant; and Nineteenth-Century Russian Literature and Society. May be repeated for credit in the same term; topic must be different.

29.647 Asian Studies (3) Topical courses in Asian history: China: from the Manchus to Mao; History of Japan; and India and the West. May be repeated for credit in the same term; topic must be different.

29.650 Colonial America (3) 1492 to 1763. The founding and development of England's North American colonies, emphasizing the original impulses and methods of colonization; Indian peoples and conflict; non-English immigration; the genesis and African background of the slave trade and slavery; and the creation of a dominant English culture in an ethnically and racially diverse society.

29.651 Era of the Revolution and Constitution (3) The political and social history of the American Revolution, emphasizing such topics as the genesis of the revolutionary conflict, the revolution as a "republican revolution," the revolution's ideological and social results and their effect abroad, and the formation of the Constitution as the revolution's finest transforming accomplishment.

29.652 The Era of the New Republic, 1789-1850 (3) The new republic's political consolidation during its first critical decades; its physical, economic, and political transformation by continental expansion; the transportation and industrial revolutions and the creation of a mass democracy; and the first confrontations over slavery in 1832-33 and 1848-50.

29.653 Civil War and Reconstruction (3) Chronological coverage from the Compromise of 1850 to the final withdrawal of federal troops from the South in 1877. Topics include antebellum reform, sectional conflict, black slavery, secession, and postwar racial and political problems. Political and social issues are emphasized, rather than a narrative of battles and skirmishes. Usually offered alternate falls.

29.654 The South since Reconstruction (3) The theme is the South's struggle with the issues of integration, separation, and self-definition since the Civil War. Reconstruction and redemption, race relations, violence, the rise and fall of the "Solid South," and the "New South" of Jimmy Carter. Usually offered alternate springs.

29.655 Emergence of Modern America, 1877-1920 (3) The course considers themes in the modernization of America: the rise of corporations and cities, the influx of immigrants from southern and eastern Europe, and the advent of the new diplomacy and Imperialism. Populism and progressivism.

29.656 Twentieth-Century America (3) Life in the twentieth century is different from all other periods of our past. To understand why requires an examination of the explosion of science and technology, the growth of government,

America's increasing involvement in the world, the multiplication of protest and liberation movements, the new politics, and neo-Keynesian economics.

29.657 America between the Wars, 1919-1941 (3) Following a decade of stability and prosperity, the dislocations caused by the Great Depression disrupted the lives and shook the institutions of the American people, leading to unprecedented political and cultural experimentation. Emphasizing both the contrasts and continuities between the 1920s and 1930s, the course investigates the patterns of political, social, cultural, economic, and intellectual life during the interwar period, with special emphasis on the tensions between radical and conservative tendencies.

29.661 World War II: The Global Experience (3) World War II examined from a global perspective. Attention is given to leaders; Allied and Axis war strategies, battles, and tactics; the occupation policies of Nazi Germany and Japan; economic warfare; innovations in weaponry; the impact of the war on imperialism, nationalism, and communism; and the allied diplomacy that shaped the post-war world.

29.662 World War II: The American Experience (3) How the United States got into World War II; its diplomatic strategy and decisions. United States military efforts and leadership. The experience of G.I. Joe. Society and politics at home. The end of the war and the approach of the Cold War. Films, television, tapes, and guest speakers. Usually offered alternate years.

29.663 Other Wars: Cold, Korean, and Vietnam (3) Origins and development of the Cold War. Revolution of American diplomacy in the Truman administration (Truman Doctrine, Marshall Plan, and NATO). Korean War. Cuban missile crisis. The Vietnam war. Diplomacy, military history, and strategy; dissent; and the Cold War's impact on society at large. Visual media and guest speakers. Usually offered alternate years.

29.664 Twentieth-Century United States Response to Revolution (3) Every twentieth-century president has been compelled to respond to a modern revolutionary movement. This course focuses on American foreign policy in a revolutionary world, including consideration of the perception of revolution in Washington; revolutions in Mexico, Russia, China, Cuba, and Iran; and "Wars of National Liberation."

29.666 Presidents of the United States I (3) American presidents from Washington through Andrew Johnson. The course concentrates on how major and minor presidents have used presidential power to deal with national problems; how they conceived of the presidency; and the roles of personality, political values, and constitutional and political constraints. Usually offered every fall.

29.667 Presidents of the United States II (3) American Presidents from Andrew Johnson to Ronald Reagan. The course concentrates on how modern presidents have used the power of the presidency to deal with national problems, the rise of the imperial presidency, congressional resurgence, and the major presidents of the twentieth century. Usually offered every spring.

29.668 Great Ideas in American History: American Thought from Puritanism to the Counter-Culture (3) The course examines the works of great American thinkers from the seventeenth century to the present, including Roger Williams, Jonathan Edwards, Jefferson, John C. Calhoun, Thoreau, Melville, Sumner, Henry Adams, William James, B.F. Skinner, and Lewis Mumford. They are

placed in their philosophical, religious, and cultural contexts.

29.670 Quantification in History (3) An exploration of the application of statistical procedures as they affect historical research. Includes both theory and historical examples. No mathematical or statistical experience required.

29.671 Ideology, Culture, and American Politics (3) How have American political leaders justified their objectives? How have popular beliefs and attitudes been reflected in the American political system? This course, concentrating on the twentieth century, explores the relationship between American political life on the one hand and ideas and popular persuasions on the other. *Prerequisite:* graduate standing.

29.674 Labor and Business in United States History (3) This course focuses on the history of work over the last 200 years. Topics include the rise of the modern corporation, technology, and the workplace; the changing "work ethic"; labor unions and labor politics; and industrial relations in the post-industrial economy. *Prerequisite:* graduate standing.

29.675 The Radical Tradition in the United States (3) The history of the left and radical social movements of workers, farmers, women, and blacks since the 1770s. *Prerequisite:* graduate standing.

29.677 Public Policy in United States History (3) This course reappraises the history of public policy and its effect on the development of modern America from the early nineteenth century to the present, focusing on the government's role in continental expansion; in business and labor policies; in the Progressive Era; in response to the Great Depression; and in the assumption of international obligations.

29.684 Historical Editing (3) The course begins with the history of documentary editing and then gives the student experience in authentication and selection, annotation, and the presentation of historical documents. The student locates a collection of manuscripts, and makes a selection to produce a publishable mini-edition.

29.690 Independent Study Project in History (1-6)

29.691 Internship (1-6) Usually offered every term.

29.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication

29.720 Colloquium in Modern European History, 1815-1945 (3) This colloquium deals with major issues in European history from 1815 to 1945. It assumes some familiarity with the basic events and historiographical depth on issues such as the formation of mass political parties, imperialism, socialism, fascism, and World War II. Usually offered every fall.

29.727 Colloquium in United States History I: to 1865 (3) The course assumes the student's familiarity with factual data and concentrates on analyzing important historiographical disputes and developments in U.S. history to the end of the Civil War. Usually offered alternate falls.

29.728 Colloquium in United States History II: since 1865 (3) The course assumes the student's familiarity with factual data and concentrates on analyzing important historiographical disputes and developments in U.S. his-

tory from 1865 to the present. Usually offered alternate falls.

29.751 Research Seminar in European History (3) Identification and development of research topics. Sources and their evaluation. Research techniques and problems. Writing and argumentation. Students research and write substantial papers based largely on primary sources. Some Ph.D. candidates use the course to develop dissertation proposals. Usually offered every spring.

29.752 Research Seminar in United States History (3) Identification and development of research topics. Sources and their evaluation. Research techniques and problems. Writing and argumentation. Students research and write substantial papers based largely on primary sources. Some Ph.D. candidates use the course to develop dissertation proposals. Usually offered every spring.

29.797 Master's Thesis Seminar (1-6) Usually offered every term.

29.796 Doctoral Dissertation Seminar (1-12) Usually offered every term.

International Service

Undergraduate Courses

33.100 Political Concepts (3) Interaction of normative and empirical theory. Such concepts as politics, power, authority, legitimacy, the state, nationalism, and conflict, and their applicability to international and comparative politics and policy analysis. Usually offered every term.

33.110 Beyond Sovereignty /S 3:1 (3) The role of the sovereign state in a world of complex interdependence and the tension between nationalism and the necessity of cooperative global problem solving. Is the state becoming obsolete? Is global policy possible in such areas as environmental protection, resource management, and containment of the destructiveness of modern weapons? Usually offered every term.

33.120 Between Peace and War /S 3:1 (3) The politics of conflict, strategies of deterrence, and crisis management. Case studies and simulations are used to examine the perennial issue of state security, with emphasis on the problematic character of military means of achieving security in the nuclear age. Usually offered every term.

33.140 Cross-Cultural Communication /S 3:1 (3) This course examines the impact of culture on perception, thought patterns, values, and beliefs in order to better understand the behavior of individuals in different cultures. Specific concerns include cross-cultural conflict and negotiation; the relationship between dominant cultures and subcultures; the issues of race, gender, and class in various societies; and the dynamics of cross-cultural adjustment. Usually offered every term.

33.151 Western Tradition I (3) Origins in Judaism, Greek philosophy, and Roman law and administration. Phenomenon of growth and stagnation in classical, Islamic, and medieval Christian civilization. Millennialism and change. Usually offered every fall.

33.152 Western Tradition II (3) Crisis of religious man, birth of scientific civilization, rationalism, secularization,

romantic reaction, and the roots of totalitarianism of the left and right. Usually offered every spring.

33.161 Civilizations of Asia (3) Comparative study of the major historical, political, and cultural traditions of Chinese, Japanese, Indian, and Southeast Asian peoples. Usually offered every term.

33.164 Islamic Civilization /A (3) The origins and character of classical Islamic civilization and the dynamics of modernization in the Islamic societies of the Middle East. Usually offered every term.

33.200 Liberalism and Its Critics /S 3:2 (3) Liberalism as a central tradition of the West. From its mid-seventeenth-century origins, liberalism has encountered a series of problems: of the individual, exchange, the public, limits, power, welfare, and the self. Close reading and discussion of exemplary texts by liberals in response to these problems and by critics of liberalism. Usually offered once each year. *Prerequisite for General Education credit:* 29.100 or 76.150.

33.202 World Politics /S (3) International relations as a specific process. Examines conflict and cooperation in international relations by analyzing diplomacy, alliances, international law and organization, and other forms of interaction. Usually offered every term.

33.210 Human Geography: Peoples, Places, and Cultures /S 3:2 (3) A topical investigation of the interrelationships between human institutions and their surrounding environment. This course provides a systematic spatial perspective to the interaction between physical, cultural, ecological, economic, and political systems on both a local as well as a global scale. Usually offered every spring. *Prerequisite for General Education credit:* 19.110 or 03.110. *Note:* not open to students who have taken 33.296 Human Geography.

33.215 Competition in an Interdependent World /S 3:2 (3) Economic competitiveness is a major contemporary issue, not only for the major powers, but also for newly industrializing countries and for developing nations. The forces affecting international competition and competitiveness are discussed through an examination of both domestic United States issues (debt, deficit, innovation, trade, education) and international issues, both political and economic. Usually offered every term. *Prerequisite for General Education credit:* 53.130 or 33.110.

33.230 International Development /S 3:2 (3) As an introduction to international development this course is divided into three sections: development theories, development assistance, and structural adjustment. In each section a variety of approaches is analyzed, and students are expected to be able to discuss the basic assumptions of each approach and the policy prescriptions that would logically follow from these assumptions. Usually offered every term. *Prerequisite for General Education credit:* 19.110 or 65.110. *Note:* not open to students who have taken 33.337 International Development.

33.250 Civilizations of Africa /A 3:2 (3) By concentrating on African societies and states, ancient and modern, the course aims to create a greater understanding of, and empathy with, the Africans: the diversity, history, culture, accomplishments, and problems of the people and their continent; and the interaction of their culture with Islam and the West. Usually offered every term. *Prerequisite for General Education credit:* 19.110 or 23.150, or 65.110. *Note:* not open to students who have taken 33.165 Civilizations of Africa.

33.255 Japan and the United States /A 3:2 (3) A multidisciplinary introduction to Japan and Japanese life. It explores the history, culture, social structure, literature, art, politics, economics, and foreign relations of this important country and invites contrasts with the United States. Usually offered every spring. *Prerequisite for General Education credit:* 33.140 or 61.185. *Note:* not open to students who have taken 00.200 or 33.296 Japan and America.

33.258 Contemporary Russia /S (3) Russia's contemporary political culture and its historical, economic, geographic, and social roots. Usually offered every fall.

33.259 Contemporary East Europe (3) A systematic examination of contemporary East Europe as a whole and of the individual communist countries: Albania, Bulgaria, Czechoslovakia, East Germany, Hungary, Poland, Romania, and Yugoslavia. Emphasis on major similarities and contrasts of political cultures. Usually offered every spring.

33.264 Contemporary Middle East /S (3) The Middle East's contemporary political culture and its historical, economic, geographic, and social roots, with special attention to the Arab world. Usually offered every term.

33.265 Contemporary Africa /S (3) Africa's contemporary political culture and its historical, economic, geographic, and social roots, with special attention to Africa south of the Sahara. Usually offered every term.

33.276 Contemporary Latin America (3) Major political, social, and economic change in Latin America, its foundations, factors accelerating and impeding it, and prospects and trends. Usually offered every term.

33.301 Theories of International Politics (3) Major trends in recent thought, including systematic and behavioral modes of analysis. Problems of explanation and theory building in social sciences with special reference to international studies. Usually offered every fall.

33.307 Quantitative Approaches to International Politics (3) Introduction to quantitative measurement and statistical analysis in international relations research. Usually offered every term.

Note Also: See courses in international economics and diplomatic history listed under the departments of economics and history in this publication.

33.321 International Law (3) Institutions of international politics, with emphasis on the nature and function of international law. Usually offered every term.

33.325 International Organization (3) Institutions of international politics, with emphasis on the nature and functions of international organization. Usually offered every term.

33.331 An Overview of the European Community (3) The course helps students find their way around the Community of the Twelve and its institutions and to comprehend its historical roots, the variety of its political scenery, the unity of its different cultures, the strength of its economy—in brief to become aware of the European identity.

33.340 Foundations of International Communication (3) The sociology, psychology, and anthropology relevant to the transmission of ideas, perceptions, and feelings between and within cultures. Communications models, perception theories, cultural contact, technological change, public opinion, propaganda, and logic systems. Usually offered every fall.

33.349 Selected Topics in International Communication (3) Cross-cultural problems of communication, research techniques in international communications, and the role of the media in cross-cultural communication. May be repeated for credit in the same term; topic must be different.

33.351 Culture and Society: Marx to Weber (3) Begins with Hegel and Marx and ends with the sociopolitical alterations after 1880, reflected in the sociology of Max Weber. Emphasis also includes Spencer, Comte, J. S. Mill, Gumplowicz, Gabriel Tarde, and Durkheim, positivism, neo-Kantianism, and early Marxist-Leninism, particularly materialism and empirio-criticism. Contrapuntal themes: naturalism, impressionism, and German expressionism and Italian futurism. Usually offered every fall. *Prerequisite:* courses in sociology, literature, and philosophy are desirable.

33.352 Culture and Society: Freud to Sartre (3) The beginnings of psychoanalysis: Nietzsche and antirationalism; Sorel and myth; the role of models, fictions, and ideal types. The shift from liberal to antiliberal political systems: Soviet Russia and the arts; dadaism and surrealism; Spengler and metahistory; intellectuals and communism; the varieties of fascism. The generation of the absurd: Camus and Sartre. The phenomenon of National Socialism and its relation to cultural derangement. Usually offered every spring. *Prerequisite:* courses in philosophy, sociology, and European history are desirable.

33.355 The Relations of West European Nations (3) World War II diplomacy as it affected Europe's postwar position, and the origins and development of the cold war in Europe. French and West German foreign policy and East-West diplomacy relating to Germany from World War II to the present; European unity with emphasis on the European Community; U.S.-European relations and issues of European security. Usually offered every spring.

33.359 Soviet Union in World Affairs (3) Analysis of recent interstate relations in the zone of Soviet influence and the place of the USSR in world affairs. Usually offered every spring.

33.364 Modern Islam (3) The 19th-century Islamic reform movements in the Middle East and North Africa and the 20th-century neofundamentalist militant movements. The conflict between these movements and the forms of secular nationalism that developed during the same period. The impact of the Islamic movements on societies oriented toward Westernization and nationalism. Usually offered every spring. *Prerequisite:* 33.164.

33.366 Asian Power Rivalries (3) International politics from Asian perspectives, with particular attention to complex relationships between China, the Soviet Union, India, and Japan. Usually offered every spring.

33.370 Political Geography: Concepts and Issues (3) Political geography is concerned with politically organized areas, their potential and extent, and the interaction between geography and political processes. Topics to be covered include cross-national boundary conflicts, ethnicity and politics, the relationship between resources and power, the law of the seas, and the geopolitics of foreign trade. Usually offered every term.

33.372 Brussels Seminar /S 3:2 (4) Part of the Study Abroad Semester in Brussels, this course covers the entire spectrum of U.S.-West European political, economic, and security relations. Selected topics include NATO, U.S.-West European economic and trade relations, the Soviet

Union and problems of European security, Europe and the Third World, West European demographics, social and industrial relations, and employment policies. Usually offered every term. *Prerequisite for General Education credit:* 33.110 or 33.140 or 53.130.

33.374 Buenos Aires Seminar /S 3:2 (4) Part of the Study Abroad Semester in Argentina, this course covers the politics, economy, culture, society, and foreign relations of Argentina. Selected topics include the political process and the party system, industrialization, inflation, and debt, and Argentina as a middle power in the international system. Usually offered every fall. *Prerequisite for General Education credit:* 33.140 or 53.130 or 65.110.

33.376 Brussels Seminar Internship (4)

33.378 Buenos Aires Internship (4)

33.381 Foreign Policies of the Great Powers (3) Analysis of the historical evolution and contemporary development of the foreign policies of the United States and the Soviet Union, including the role of China in the foreign policy of each. Emphasis is on the interaction of the policies and behavior of the major powers. Usually offered every fall.

33.382 The Analysis of United States Foreign Policy (3) Approaches to the study of American foreign policy processes and decision making; the role of the president, the bureaucracy, the Congress, and public opinion. Applications of US-USSR relations. Usually offered every term.

33.384 American Defense and Security Policy (3) United States national security policy formulation, including organizational politics, NSC systems, state and defense departments, the intelligence community, defense budgeting, weapons acquisition, and executive-legislative relations. Usually offered every spring.

33.385 United States Foreign Economic Policy /S (3) Major factors and issues in U.S. international economic relations in terms of trade-offs between political and economic priorities; emphasis on U.S. international trade, finance, development, energy, and investment policies. Usually offered every term. *Prerequisite:* 19.100 and 19.200.

33.386 Comparative Foreign Policy (3) Policy formation and implementation of selected nation-states. Analysis of the effect of foreign policies of selected countries on development, international stability, and environment. Usually offered every spring.

33.389 Selected Topics in Policy Analysis (3) Analysis of topics in public policy, with special attention to diplomatic, security, economic, or environmental policies. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.390 Independent Reading Course in International Studies (1-6)

33.391 Internship in International Affairs (1-12) Direct involvement in policy making through participation in a government agency or nongovernmental organization. Credit varies depending on the nature of internship and the number of hours involved. Usually offered every term. *Prerequisite:* permission of coordinator of Internships.

33.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication

33.465 Contemporary International Trade and Investment Policies (3) The major contemporary foreign trade and international investment policy issues confronting the U.S. Geographic and functional issues are analyzed in both economic and political terms. Usually offered every fall. *Prerequisite:* 33.385 or 33.615.

33.466 Contemporary U.S. Foreign Economic Policy: Finance, Energy, and Development (3) The major issues confronting U.S. foreign economic policy in the sectors of finance, energy, development, and the international monetary system. Problems are analyzed in both economic and political terms. Usually offered every spring. *Prerequisite:* 33.385 or 33.615.

33.490 Independent Study Project in International Studies (1-6)

33.491, 33.492, 33.493, 33.494 Special Semesters in International Studies (4), (4), (4), (4) *Foreign Policy Semester:* Innovative approach to education which permits a group of students, guided by a team of professors, to devote their entire efforts for one semester to United States foreign policy formulation and implementation. Systematic study of foreign policy emphasizes qualitative analysis and employs quantitative methods as appropriate. Students participate in seminars, workshops, on-site observation, and individual and joint research projects, and meet with foreign policy makers and influencers from government, media, and other private-sector organizations. Internship optional. Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the semester. *International Development Semester:* Innovative approach to education which permits a group of students, guided by a team of professors, to devote their entire efforts for one semester to the theme of development. Integrates and synthesizes knowledge from various fields and applies this multidisciplinary approach to the analysis of specific issues and problems in fields of political, economic, and social development. Students participate in seminars and conferences, individual and team research projects, on-site observation and field investigations, simulation exercises, and computer-aided measurement and analysis of development data. Internship optional. Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the semester.

33.498 Senior Honors (1-6) Usually offered every term.

Graduate and Advanced Undergraduate Courses

33.504 Multinational Corporations (3) The structure and functions of multinational corporations in the global system and their developmental effect on other actors. Usually offered every term.

33.513 Computer Applications in International Relations Research (3) The use of the Statistical Package for the Social Sciences (SPSS) and multivariate statistical methods in international relations research. Usually offered every term. *Prerequisite:* 33.307 or 33.600.

33.518 Diplomacy of World War II (3) Foreign policies of the Axis countries (Germany, Italy, and Japan) and the major allied powers (U.S., U.K., USSR, France, and China). International conferences and agreements leading to the Potsdam conference and organization of the U.N. The relation of wartime diplomatic developments to current issues in international relations. Usually offered alternate falls.

33.519 Special Studies in International Politics (3) Topics have included population dynamics, war crimes,

ethnicity and international politics, Chinese ideology, and reform and revolution in Latin America. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.520 Survey of International Law and Organization (3) Graduate introduction to the nature and functions of international law and the interstate system within which it operates. Emphasis on recent trends and future capabilities. For graduate students who have no previous courses in international law or international organization. Usually offered every fall.

33.530 Colloquium on the Common Market (3) Taught in French. Topics include institutional development, financing of community activities, community policies, external relations, community law, and business case studies. Specific issues within each area rotate regularly every semester over a two-year cycle. Usually offered every term.

33.533 Seminar on the European Community's Current Programs (3) Current community policies and their relevance to the achievement of a closer European union. Topics include: Internal Market, Financing Community Activities, Common Agricultural Policy (CAP), Regional Policy, Lomé Convention, Transport, Energy, Research and Technology, A People's Europe, Social Policy, Structural Environment, Economic and Monetary Union, and Community Law. Usually offered every spring.

33.534 World Human Needs and International Planning (3) Social, economic, political, and moral implications of the growing chasm between rich and poor nations; world population growth, resources, and environmental pollution; differences of opportunity for food and health; housing, education, employment, social security, migration, and brain-drain; implications of resentment and violence potentials; and problems and possibilities of international planning. Usually offered every fall.

33.536 Special Topics in World Human Needs (3) Topics have included world food resources and policy, international administration, international planning, world population dynamics, disaster preparedness and relief, world housing, and world geography. May be repeated for credit in the same term; topic must be different.

33.537 Special Topics in Development Management (3) Topics will include managing rural development; agriculture and international development; migration, urbanization, and regional planning; development project management; development evaluation, and similar topics. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.551 Politics and Society in Western Europe Since 1945 (3) The political systems, values, and sociological changes in West European society since 1945; an analysis of European nations and regions and of different levels of development and economic organization. Usually offered every fall.

33.557 Foreign Policy Formulation in West European States (3) Conditioning factors, instrumentalities, political parties, pressure groups and organizations, and public media and opinion. Usually offered every spring.

33.558 Soviet Political System (3) Study of the Soviet political system and its relationship to political culture and the formation of social values. Emphasis is on the Communist Party and the interdependence of political and social behavior. Usually offered every fall.

33.559 Selected Topics in Cross-National Studies (3) Topics include comparative ethnic politics, comparative class formations, comparative strategies of modernization, comparative communist systems, culture and communication in cross-national studies; usually with a geographical, regional focus. Offered irregularly.

33.561 Modern China (3) Emergence of China as a world power, with emphasis on economic, political, and social trends in the People's Republic of China today. Usually offered alternate springs.

33.562 Modern Japan (3) Continuity and change in postwar Japanese society as contrasted with the prewar society. Usually offered alternate falls.

33.567, 33.568 International Relations of East Asia I, II (3), (3) Recent historical and contemporary interstate relations in East Asia, and the place of East Asia in world affairs. Usually offered every term.

33.569 International Relations of Southeast Asia (3) Recent and contemporary interstate relations in Southeast Asia and the place of Southeast Asia in world affairs. Usually offered alternate springs.

33.571, 33.572 International Relations of the Middle East I, II (3), (3) Recent historical and contemporary interstate relations in the Middle East and North Africa and the place of the Middle East in world affairs. Usually offered every term.

33.573, 33.574 International Relations of Africa I, II (3), (3) Recent historical and contemporary interstate relations in Africa and the place of Africa in world affairs. Usually offered every term.

33.577, 33.578 International Relations of Latin America I, II (3), (3) Recent and contemporary interstate relations in Latin America and the place of Latin America in world affairs. Usually offered every term.

33.579 Selected Regional and Country Studies (3) Selected topics in contemporary international relations with regional or area focus. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* appropriate regional course at the 500 or 600 level or equivalent.

33.581 Schools of Thought in Contemporary United States Foreign Policy (3) Seminar examining disparate normative assumptions about United States foreign policy. A wide spectrum of viewpoints is examined, and students explore their own values as they relate to foreign policy. Usually offered every spring.

33.582 International Organizations and Latin American Development (3-6) Drawing on Washington-area resources relating to Latin America and to inter-American affairs (e.g., OAS, Inter-American Development Bank, USAID, and the Latin American diplomatic community), the course examines selected major issues in inter-American relations with a focus on the role of international and U.S. agencies and on foreign policies of individual Latin American nations. Usually offered every summer.

33.583 United States in World Affairs (3) Recent and contemporary interstate relations in areas of American influence and the place of the United States in world affairs. Usually offered every fall.

33.588 International Security and Arms Control (3) The strengths and weaknesses of arms control. Examination of the military strategy-policy relationship, deterrence the-

ory, strategic posture and doctrine, and terrorism. Usually offered every spring.

33.589 Selected Topics in Comparative Policy Analysis (3) Topics include comparative and foreign policy areas such as welfare, education, science, housing, health, and development strategies (defense and disarmament, foreign economic policy); usually with a geographical, regional focus. Usually offered every fall.

33.590 Independent Reading Course in International Studies (1-6)

33.593 Humphrey Fellows Seminar (3) A special seminar for Hubert Humphrey Fellows. Topics vary with the semester, but include the issue of technological transfer. Usually offered every term. May be repeated for credit, but not within the same term; topic must be different. *Prerequisite:* open to Humphrey Fellows; other students admitted by permission of instructor.

Graduate Courses

33.600 Introduction to Quantitative International Relations (3) Introduction to research design, quantitative measurement, statistical analysis, and computer use for international relations research. Usually offered every term.

33.601 Theory in International Relations (3) Interdisciplinary perspectives; major paradigms of thought; definition of boundaries of the field; normative and analytic goals and definition of priorities. Usually offered every fall.

33.602 Contemporary International Politics (3) The course covers a number of contemporary topics from a diversity of perspectives. Topics include East-West relations, regional integration and fragmentation patterns, North-South relations, development and interdependency challenges, and the emergence of new actors in the international system. Usually offered every term.

33.604 Masterworks of International Relations (3) A literature course divided into twenty-one topics which are chronologically ordered by reference to the date of works initiating streams of discourse. Representative later works are also covered. Students are required to keep a working journal of their reading notes for the instructor's inspection. Usually offered every spring.

33.605 Cooperative Global Politics (3) This course examines the historical movement toward stability and order in the international political system with emphasis on comparing such concepts as nation-state/one world; national interest/human interest; Rights of States/Human Rights; sovereignty/interdependence; war/collaborative conflict resolution. The concepts that underlie the competitive model of world politics: individualism, rationality and self-interest, are analyzed within the global political context. Offered every fall.

33.606 Global Politics as Cultural Activity (3) The purposes of this course are threefold: first, to investigate the hypothesis that World Politics is a cultural activity; second, to begin the articulation of a theoretical basis for a cultural analysis of world politics; and finally, to investigate whether such analysis provides a stronger basis for stability and order in the international system.

33.607 Peace Paradigms (3) The history and development of approaches to peace, with particular emphasis upon the following: peace through coercive power, peace through nonviolence, peace through world order, and

peace through personal and community transformation. Usually offered every spring.

33.615 Fundamentals of United States Foreign Economic Policy (3) Analysis of the principal American policies of international trade, finance, development, energy, and investment. Issues are examined in the context of foreign and domestic economic and political considerations. Usually offered every fall. *Prerequisite:* 19.101, 19.311, or equivalent.

33.621 International Law and the Legal Order (3) Nature and functions of international law in interstate relations, with emphasis on recent trends in scholarship and on cases, documents, and other original materials. Usually offered every spring.

33.625 World Organization and World Order (3) Origins, principles, organization, activities, and circumstances of the League of Nations, United Nations, and allied models of future world order. Theoretical aspects emphasized. Usually offered every spring.

33.630 The European Community and International Trade (3) The course addresses all students interested in increasing their knowledge of the European Community. It deals primarily with the development of the Community, its institutions, various common policies, external relations, and laws in the larger context of international business. Usually offered every fall.

33.636 Micropolitics of Development (3) People and their choices in developmental change. Some persons work within credit unions, cooperatives, parties, interest groups, or alone without much group support. Others rely on patrons, prayers, bribes, threats, or combinations of all these resources for survival. An understanding of survival struggles and strategies is the objective of this course. Usually offered every term. *Prerequisite:* graduate standing.

33.637 International Development (3) Alternative theories and definitions of development as expressed in the major international institutions (aid agencies, cartels, multinational corporations) concerned with the transfer of resources. Considers the problems of the "change-agent" in working for development and examines the major development issues. Usually offered every term.

33.638 Selected Topics in International Development Skills (1) Introduction to a specific technique or approach currently used in the international development field, focusing on project planning, community development, action research, or another similar area. May be repeated for credit in the same term; topic must be different. Offered every term. *Prerequisite:* 33.637, 54.613, 19.560, or equivalent.

33.639 Development Problems and Sectoral Strategies (3) Examination and evaluation of the translation of international development theory into policy, programs, and projects, with particular emphasis on the following sectors: food and nutrition, health and family planning, human resource development, and energy and environmental activities. Usually offered every spring. *Prerequisite:* 33.637 recommended but not required.

33.640 International Communication (3) Concepts, theories, and problems of international communication. Individual group behavior as presented in social and behavioral sciences. Usually offered every fall and summer.

33.641 Psychological and Cultural Bases of International Politics (3) Phenomena and problems of interna-

tional political behavior and underlying psychological and cultural forces. Theory of international politics from the point of view of behavioral science. Usually offered every spring. *Prerequisite:* 33.340 or 33.640.

33.642 Cross-Cultural Communication (3) Contribution of relevant social and behavioral science to the study of cross-cultural communication. Analysis of culture as communication and of value-systems as essential in communication. Usually offered alternate springs. *Prerequisite:* 33.640 or equivalent.

33.643 Communication and Political Development (3) Theories and models. Communication patterns and political socialization in modernization. Usually offered every fall. *Prerequisite:* permission of instructor.

33.644 Communication and Social and Economic Development (3) Communication as an instrument of social and economic development. Uses of communication for national integration, social change, and diffusion of innovation. Usually offered every spring. *Prerequisite:* permission of instructor.

33.645 International and Comparative Communication Policies (3) The major issues, trends, and institutions concerned with contemporary global, international, and regional communication policies; comparative analysis of selected communication policies; and the use of modern communication technologies in the context of international relations. Usually offered every fall and summer. *Prerequisite:* 33.640.

33.651 Culture and Society: Marx to Weber (3) Begins with Hegel and Marx and ends with the sociopolitical alterations after 1880, reflected in the sociology of Max Weber. Emphasis also includes Spencer, Comte, J. S. Mill, Gumplowicz, Gabriel Tarde, and Durkheim, positivism, neo-Kantianism, and early Marxist-Leninism, particularly materialism and empirio-criticism. Contrapuntal themes: naturalism, impressionism, and German expressionism and Italian futurism. Usually offered every fall. *Prerequisite:* courses in sociology, literature, and philosophy are desirable.

33.652 Culture and Society: Freud to Sartre (3) The beginnings of psychoanalysis; Nietzsche and antirationalism; Sorel and myth; the role of models, fictions, and ideal types. The shift from liberal to antiliberal political systems: Soviet Russia and the arts; dadaism and surrealism. Spengler and metahistory; intellectuals and communism; the varieties of fascism. The generation of the absurd: Camus and Sartre. The phenomenon of National Socialism and its relation to cultural derangement. Usually offered every spring. *Prerequisite:* courses in philosophy, sociology, European history are desirable.

33.655 International Relations of Western Europe (3) World War II diplomacy affecting postwar Europe and the origins and development of the cold war. European security; West German foreign policy and East-West diplomacy relating to Germany from World War II to the present; and French foreign policy through the Gaullist period. Usually offered every fall.

33.656 Contemporary International Relations of Western Europe (3) Theoretical approaches to the study of European integration. Evolution of West European unity since World War II with emphasis on the European Community, United States-West European relations from the 1960s, and contemporary issues of European security. Usually offered every spring.

33.659 International Relations of the Soviet Union (3) Analysis of recent and contemporary interstate relations in areas of Soviet influence and the place of the USSR in world affairs. Usually offered every fall.

33.664 Islam and Nationalism: Middle East (3) Lecture and discussion on secular nationalism and Islamic militancy in the Middle East and North Africa during the past one hundred years; the origins and characteristics of the movements; the conflict between them and its impact on the politics and international relations of the area; the emergence of neofundamentalist Islamic movements. Usually offered every spring.

33.665 Contemporary International Trade and Investment Policies (3) The major contemporary foreign trade and international investment policy issues confronting the U.S. geographic and functional issues are analyzed in both economic and political terms. Usually offered every fall. *Prerequisite:* 33.385 or 33.615.

33.666 Contemporary U.S. Foreign Economic Policy: Finance, Energy, and Development (3) The major issues confronting U.S. foreign economic policy in the sectors of finance, energy, development, and the international monetary system. Problems are analyzed in both economic and political terms. Usually offered every spring. *Prerequisite:* 33.385 or 33.615.

33.670 Theory and Method in Cross-National Studies (3) Theoretical and methodological approaches to cross-national studies and their historical development; implications for contemporary research in comparative political and policy analysis; policy relevance of contending approaches (e.g., conflict versus consensus). Usually offered every fall.

33.682 United States Foreign Policy (3) Analysis of American foreign policy and diplomacy, including the role of the president, Congress, Department of State, and other agencies in foreign policy making. Usually offered every fall.

33.684 National Security Policy (3) Policy making, implementation, and control; civilian-military, military-industrial, and executive-legislative relations; and the interaction of security policies of the United States and other powers. Usually offered every fall.

33.686 Comparative Foreign Policy Analysis (3) Psychological, political, societal, and systematic components of foreign policy and decision making. Usually offered every fall.

33.689 Seminar in Foreign Policy Analysis (3) Graduate research seminars focusing on selected topics; analysis of Soviet policy-making, domestic and foreign. Approaches to foreign policy analysis. Cognitive mapping in international relations. Social indicators in foreign policy research. May be repeated for credit in the same term; topic must be different.

33.690 Independent Study Project in International Studies (1-6)

33.691 Internship in International Affairs (1-12) Direct involvement in policy making through participation in a governmental agency or nongovernmental organization. Credit varies, depending on nature of internship and number of hours involved. Usually offered every term. *Prerequisite:* permission of coordinator of internships, SIS.

33.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

33.693 Practicum: Action Research in Development Management (6) Action research, supervised by a faculty member, involves development management degree candidates in analyzing an organization and its interaction with its environment and clientele. Special attention is given to improving organizational responsiveness to community needs. *Prerequisite:* Any five of the following: 19.560, 33.639, 33.593, 33.637, 54.614, 55.513.

33.694 National Development and Foreign Assistance (6) Inquiry into the evolution of U.S. economic and foreign policy perspectives vis-a-vis the Third World; moves to develop a multidimensional consideration of development definitions, theory and practice, government policy, foreign assistance, and sustainable development. Considers the development goals of a wide range of nation states as well as the future forms foreign assistance might take. Open only to participants in the U.S.A.I.D. Development Studies Program. Usually offered every summer. *Prerequisite:* Five years of International Development experience and approval of U.S.A.I.D. supervisor.

33.695 Research Seminar in International Communication (3) Review of the applied strategies and content of research in the field of international communication; major epistemological and methodological issues; critical analysis of international communication research. Usually offered every spring and summer. *Prerequisite:* 33.640.

33.701 Development of the Study of International Relations (3) A historical/developmental survey of international relations, beginning with the post-World War I era. Professor and students examine the proposition that the literature of this relatively new field reflects and indeed grows out of the changing patterns of world politics at the time of writing. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program in International Relations.

33.702 Comparative and Cross-National Studies (3) Theoretical and methodological approaches to comparative and cross-national studies, with emphasis on the systemic context for political activity and how this is manifested in public and international policy. Literature drawn from several social sciences, with attention to policy and political systems in different types of countries. Usually offered every spring. *Prerequisite:* admission to the Ph.D. program in International Relations.

33.703 Contemporary Theories of International Relations (3) This course critically reviews developments in international relations theory over the last decade. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program in International Relations.

33.704 Conduct of Inquiry in International Relations (3) Survey and analysis of alternative theories of knowledge in the social sciences. Epistemological norms of modern empiricism. The critique of empiricism. Linguistic analysis, phenomenology, ethnomethodology, hermeneutics, critical theory, structuralism, and post-structuralism. Application to the study of international relations. Usually offered every spring. *Prerequisite:* admission to the Ph.D. program in International Relations.

33.710 Colloquium in International Relations (3) Interactive dialogue between faculty members and doctoral students in the international relations field. Some M.A. students admitted with permission. Reading and discussion of literature and ideas in an aspect of the field

announced in advance by the Graduate Office, School of International Service. Preparation for comprehensive examination.

33.715 Seminar on Advanced Research Design (3) An overview of social science research methodology issues guiding students in the design of their own research projects. *Prerequisite:* matriculation in Doctoral Program.

33.725 Seminar on Law in International Affairs (3) The history and theory of international law, major areas of change in contemporary law, and the role of the practitioner. Research in students' special fields. Usually offered every spring. *Prerequisite:* School of International Service; signature of instructor; Washington College of Law; admission to J.D./M.A. program and second- or third-year standing.

33.729 Research Seminar in International Law and Organization (3) Research seminar organized according to need around a substantive problem focus, a technique focus, or a more general focus. Preparation for comprehensive examination. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall. *Prerequisite:* 33.621 or 33.625.

33.740 Colloquium in International Communication (3) Intensive dialogue between faculty members and doctoral students in international communication. Some M.A. students admitted with permission. Reading and discussion of literature and ideas in an aspect of the field announced in advance by the Graduate Office, School of International Service. Preparation for comprehensive examinations. Usually offered every term.

33.797 Master's Thesis Supervision (1-6) Usually offered every term.

33.799 Dissertation Supervision (1-12) Members of the SIS faculty, invited scholars, and doctoral students who have readied dissertation proposals make formal scholarly presentations. Usually offered every term. *Prerequisite:* Matriculation as doctoral student in residence.

Jewish Studies

Undergraduate Courses

34.101 Introduction to Jews and Judaism /A (3) A survey of Judaism—its rituals and major institutions—from its origins in antiquity to the modern Reform, Orthodox, and Conservative movements; also includes a discussion of the variety of secular expressions of Judaism adopted by American Jews. Usually offered every fall.

34.205 Ancient and Medieval Jewish Civilization /S 2:2 (3) Examines the independent Jewish states that flourished in Palestine, the rise of the most important Jewish communities outside the ancient Jewish homeland, and the foreign influences that shaped not only the political life of the Jews but also their internal organization and their creativity. Usually offered every fall. *Prerequisite for General Education credit:* 07.100 or 23.115.

34.206 Modern Jewish Civilization /S (3) A survey of the ways Jews responded to the challenges of modernity. These reactions included the creation of new Jewish communities in America and Israel, shifts in Jewish political status, and innovations in Jewish religious and intellectual life such as Zionism and Hasidism. Usually offered every spring.

34.211 Humanity and Jewish Identity /A (3) Factors and issues that affect Jewish identity, such as assimilation, intermarriage and conversion, anti-Semitism, education, philanthropy, religious denominations, the synagogue, rituals, and the role of women. The impact of Israel, the Holocaust, and Soviet Jewry on Jews and Jewish institutions. Usually offered every spring.

34.228 Judaism and Christianity in Dialogue (3) This is a course generally given by a Jewish scholar and a Christian scholar. The theological differences and similarities between the two traditions are discussed from all points of view. The origin of Christianity out of Judaism and the divergencies in their respective directions are analyzed. Attention is also given to agreement and conflict on political and social issues, such as abortion, church and state, missionary activity, and religious prejudice.

34.301 Introduction to Jewish Literature (3) A survey of the ways Jews have expressed themselves in literary forms, beginning with the Bible and continuing with Biblical commentaries, the Talmud, medieval poetry, legal codes, and contemporary Jewish writing on the historical experience.

34.305 Judaism and Current Issues /S (3) Analysis of varied Jewish positions on some key issues of our time, such as Soviet Jewry, the role of women, the "Moral Majority," religion and state, anti-Semitism, abortion, biomedical ethics, and terrorism.

34.310 Topics in Jewish Religion and Thought /A (3) Rotating topics on the intellectual and theological dimensions of the Jewish people. Personalities, such as Martin Buber; movements, such as Reform Judaism; or fields of study, such as Jewish mysticism. May be repeated for credit but not in the same term; topic must be different.

34.312 Holocaust and Modern Man /A (3) Analysis of the roots of pathological anti-Semitism and racism that led to the Holocaust. Description of the intended "final solution," with attention to the responses of Jews and the nations of the world. Theological problems of explaining the Holocaust. Usually offered every fall.

34.320 Topics in Jewish Culture (3) Rotating courses on historical and contemporary aspects of the Jewish heritage, such as Judaism and Hellenism; Judaism and Islam; art, dance, and drama as expressions of the Jewish spirit; and Jewish education: content and method. May be repeated for credit but not in the same term; topic must be different.

34.330 The American Jewish Community /S (3) Today American Jewry constitutes the preeminent Diaspora Jewish community. This course traces the remarkable development of this group by examining the waves of Jewish immigration to the United States and the institutions that American Jews created to sustain their community.

34.340 Topics in Jewish Literature /A (3) An in-depth examination of one theme or period in Jewish literature. Topics include Holocaust literature, modern Hebrew poetry, Jewish liturgy and song, Yiddish literature, American Jewish literature, and folktales. May be repeated for credit but not in the same term; topic must be different.

34.385 Zionism and the State of Israel /S (3) Zionism as a philosophy; the concept of Zion in post-Biblical literature and thought; the establishment of the state of Israel, its current status and problems, and its relationship to the Arab world. Usually offered alternate falls.

34.390 Independent Reading Course in Jewish Studies (1-6)

34.481 Senior Thesis in Jewish Studies (3) Jewish studies majors prepare a thesis on a topic selected after consultation with the student's adviser. *Prerequisite:* all other Jewish studies program major requirements.

34.490 Independent Study Project in Jewish Studies (1-6)

34.491 Internship in Jewish Studies (1-6) The internship provides the student an opportunity to enrich organizational skills and experience. The student earns university credit for the work and contributes needed services to the host agency, such as community relations, religious, Israel-centered, social welfare. The amount of credit depends on the number of hours of work.

Graduate and Advanced Undergraduate Courses

34.500 Foundations of Jewish Culture and Tradition (3) Introduction to the deeper methodological issues surrounding selected liturgical and ritual institutions and practices. The approach is three-directional: (1) Historical development, culminating in variants in the Ashkenazic and Sephardic traditions; (2) analysis of theological content; and (3) application to contemporary religious values in the American and Jewish community. *Prerequisite:* knowledge of basic rabbinic concepts and permission of instructor.

34.502 The Modern Jewish Experience in Literature (3) The experience of the Jewish people in the twentieth century as it is reflected in the works of modern Jewish writers from Israel, Europe, and America, including the following authors: Malamud, Wiesel, Schwarz-Bart, Wouk, Sholom Aleichem, Mendele Mocher Seferim, A. B. Yehoshua, and Amos Oz. The effect of historical and cultural differences is analyzed. *Prerequisite:* knowledge of twentieth-century Jewish life, a previous course in literature, permission of instructor.

34.504 Jewish Ethics and Values (3) An introduction to advanced methods of handling Jewish texts dealing with legal, ethical, and moral issues confronting modern society. Topics such as birth control, abortion, zero population growth, gambling, women's liberation, cruelty to animals, euthanasia, business ethics, and the conflict of ethics and law are studied. *Prerequisite:* knowledge of basic Jewish philosophical and rabbinic concepts and permission of instructor.

34.506 Jewish Social, Political, and Cultural Institutions (3) An introduction to advanced methods of handling Jewish texts dealing with social, political, and cultural issues confronting Jewish societies throughout the ages. Topics include Jewish education and scholarship, Jewish self-government, Zionism, and Jewish philanthropic institutions. Usually offered every spring. *Prerequisite:* permission of instructor or program director.

34.508 Analysis of Jewish Liturgical Texts (3) An in-depth study of liturgy in Judaism. The major vehicle for the study is the liturgy itself, but the class also does readings from the secondary literature. The liturgical texts are drawn from classical and contemporary sources.

34.590 Independent Reading Course in Jewish Studies (1-6)

Graduate Course

34.690 Independent Study Project in Jewish Studies (1-6)

Language and Foreign Studies

Elementary and Intermediate

Undergraduate Courses

36.106 Polish Elementary I (3) A practical language course requiring no background or skill in the language. A brief introduction to Polish history, geography, and culture as well as a forum on Poland today. The emphasis is on communicative competence and spoken Polish in order to enable students to acquire oral skills in selected registers, such as shopping, social meetings, tourism, and everyday conversation. Usually offered every fall.

36.107 Polish Elementary II (3) A practical language course requiring no background or skill in the language. A brief introduction to Polish history, geography, and culture as well as a forum on Poland today. The emphasis is on communicative competence and spoken Polish in order to enable students to acquire oral skills in selected registers, such as shopping, social meetings, tourism, and everyday conversation. Usually offered every spring.

36.108 Latin, Elementary I (3) A foundation for the reading and understanding of Latin. This includes studying the phonology of Latin, building vocabulary, studying Latin grammar, and reading and translating Latin texts. Usually offered every fall.

36.109 Latin, Elementary II (3) Continuation of 36.108. Usually offered every spring. *Prerequisite:* 36.108.

36.110 Hindi, Elementary I /A (3) Usually offered every fall.

36.111 Hindi, Elementary II /A (3) Usually offered every spring. *Prerequisite:* 36.110 or equivalent.

36.112 Chinese, Intensive Elementary I /A (6) Understanding and speaking conversational Chinese and reading simple texts. Emphasis on audio-lingual skills. Common speech situations. Pronunciation drills, structural pattern drills within the limits of a basic vocabulary, and exercises in the Chinese writing system constitute the main part of classroom and laboratory activities. Usually offered every fall.

36.113 Chinese, Intensive Elementary II /A (6) Continuation of 36.112. *Prerequisite:* 36.112 or equivalent.

36.114 Japanese, Intensive Elementary I /A (6) Understanding and speaking conversational Japanese and reading simple texts. Emphasis on audio-lingual skills in common speech situations. Pronunciation drills, structural pattern drills within the limits of basic vocabulary, and exercises in Japanese writing system. Usually offered every fall.

36.115 Japanese, Intensive Elementary II /A (6) A continuation of 36.114. Usually offered every spring. *Prerequisite:* 36.114 or permission of instructor.

36.116 Hebrew, Elementary Modern I /A (3) Usually offered every fall.

36.117 Hebrew, Elementary Modern II /A (3) Usually offered every spring. *Prerequisite:* 36.116 or equivalent.

36.118 Italian, Elementary I /A (3) Emphasis on mastering structure. Basics of phonology and morphology. Situational approach. Development of good pronunciation and speech patterns. Two and a half hours per week of class instruction supplemented by individual language and laboratory work. Usually offered every fall.

36.119 Italian, Elementary II /A (3) Continuation of 36.118. Usually offered every spring.

36.122 French, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of French structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.123 French, Elementary II /A (3) Continuation of 36.122. Usually offered every spring. *Prerequisite:* 36.122 or equivalent.

36.124 French, Intensive Elementary I /A (5) Usually offered every fall.

36.125 French, Intensive Elementary II /A (5) Usually offered every spring. *Prerequisite:* 36.124 or equivalent.

36.132 German, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of German structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.133 German, Elementary II /A (3) Continuation of 36.132. Usually offered every spring. *Prerequisite:* 36.132 or equivalent.

36.134 German Intensive Elementary I (5) Emphasis on audio-lingual skills and mastering the main features of German structure. Acquisition of basic vocabulary. Inductive presentation of grammar. Reading and writing as auxiliary skills. Five hours of classroom instruction, supplemented with laboratory work (audio and visual tapes). Usually offered every fall.

36.135 German, Intensive Elementary II (5) Continuation of 36.134. Usually offered every spring.

36.142 Russian, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of Russian structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.143 Russian, Elementary II /A (3) Continuation of 36.142. Usually offered every spring. *Prerequisite:* 36.142.

36.144 Russian, Intensive Elementary I /A (5) Emphasis on audio-lingual skills and mastering the main features of Russian structure. Exercises in the Russian writing system, phonology, and reading drills. Acquisition of basic vocabulary. Inductive presentation of grammar. Five hours of classroom instruction, supplemented with laboratory work (audio and video tapes). Usually offered every fall.

36.145 Russian, Intensive Elementary II /A (5) Continuation of 36.144. Usually offered every spring. *Prerequisite:* 36.144 or equivalent.

36.146, 36.147 Russian Elementary Workshop I, II (2),(2) Graded practicum designed to reinforce Russian language skills and expand vocabulary. Coordinated with 36.142 and 36.143. Must be taken with the appropriate course. Usually offered every term.

36.152 Spanish, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of Spanish

structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.153 Spanish, Elementary II /A (3) Continuation of 36.152. Usually offered every spring. *Prerequisite:* 36.152.

36.154 Spanish, Intensive Elementary I /A (5) Usually offered every fall.

36.155 Spanish, Intensive Elementary II /A (5) Usually offered every spring. *Prerequisite:* 36.154 or equivalent.

36.212 Chinese, Intensive Intermediate I /A (5) Further practice in conversation; acquisition of new grammatical structures, vocabulary and characters. Content includes cultural topics related to customs, history, geography, and literature. Usually offered every fall. *Prerequisite:* 36.113 or permission of instructor.

36.213 Chinese, Intensive Intermediate II /A (5) Continuation of 36.212. Usually offered every spring. *Prerequisite:* 36.212 or permission of instructor.

36.214 Japanese Intensive Intermediate I (6) A continuation of skills development in understanding, speaking, reading, and writing Japanese. Usually offered every fall. *Prerequisite:* 36.115 or equivalent.

36.215 Japanese Intensive Intermediate II (6) A continuation of skills development in understanding, speaking, reading and writing Japanese. A continuation of 36.214. Usually offered every spring. *Prerequisite:* 36.214 or equivalent.

36.216 Hebrew, Intermediate Modern I /A (3) Usually offered every fall. *Prerequisite:* 36.129 or equivalent.

36.217 Hebrew, Intermediate Modern II /A (3) Usually offered every spring. *Prerequisite:* 36.216 or equivalent.

36.218 Italian, Intermediate I /A (3) Refinement of basic language skills. Expansion of vocabulary in a cultural context. Development of communicative skills. Reading and writing as auxiliary skills. Usually offered every fall. *Prerequisite:* 36.119 or equivalent.

36.219 Italian, Intermediate II /A (3) Continuation of 36.218. Usually offered every spring. *Prerequisite:* 36.218 or equivalent.

36.222 French, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on French cultural patterns. Usually offered every fall. *Prerequisite:* 36.123 or equivalent.

36.223 French, Intermediate II /A (3) Continuation of 36.222. Usually offered every spring. *Prerequisite:* 36.222.

36.224 French, Intensive Intermediate I /A (6) Usually offered every fall. *Prerequisite:* 36.125 or equivalent.

36.225 French, Intensive Intermediate II /A (6) Usually offered every spring and summer. *Prerequisite:* 36.224 or equivalent.

36.232 German, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on German cultural patterns. Usually offered every fall. *Prerequisite:* 36.133.

36.233 German, Intermediate II /A (3) Continuation of 36.232. Usually offered every spring. *Prerequisite:* 36.232.

36.242 Russian, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on Russian cultural patterns. Usually offered every fall. *Prerequisite:* 36.143.

36.243 Russian, Intermediate II /A (3) Continuation of 36.242. Usually offered every spring. *Prerequisite:* 36.242 or equivalent.

36.244 Russian, Intensive Intermediate I /A (5) Refinement of basic language skills. Expansion of vocabulary in a cultural context. Review of grammatical structures. Development of communicative skills. Reading and writing as auxiliary skills. Five hours of classroom instruction, supplemented with laboratory work (audio and video tapes). Usually offered every fall. *Prerequisite:* 36.145 or equivalent.

36.245 Russian, Intensive Intermediate II /A (5) Continuation of 36.244. Usually offered every spring. *Prerequisite:* 36.244 or equivalent.

36.246, 36.247 Russian Intermediate Workshop I, II (2),(2) Graded practicum designed to reinforce Russian language skills and expand vocabulary. Coordinated with 36.242 and 36.243. Must be taken with the appropriate course. Usually offered every term.

36.252 Spanish, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on Spanish cultural patterns. Usually offered every fall. *Prerequisite:* 36.153.

36.253 Spanish, Intermediate II /A (3) Continuation of 36.252. Usually offered every spring. *Prerequisite:* 36.252.

36.254 Spanish, Intensive Intermediate I /A (6) Usually offered every fall. *Prerequisite:* 36.155 or equivalent.

36.255 Spanish, Intensive Intermediate II /A (6) Usually offered every spring. *Prerequisite:* 36.254 or equivalent.

36.258 Practical Spanish for Careers I /A (3) A practical, multimedia course stressing communication in Spanish appropriate to a wide variety of situations encountered in the world of work. Emphasis is on mastery of basic language skills and culture with extensive use of filmstrips, sound cassettes, audio tapes, video tapes, etc. The course helps students learn to communicate with the ever-growing Spanish-speaking communities in the U.S. Usually offered every fall. *Prerequisite:* one year of college Spanish or equivalent.

36.259 Practical Spanish for Careers II /A (3) Continuation of 36.258. Usually offered every spring. *Prerequisite:* 36.258.

36.390 Independent Reading Course in Language and Foreign Studies (1-6)

36.490 Independent Study Project in Language and Foreign Studies (1-6)

Graduate and Advanced Undergraduate Courses

36.590 Independent Reading Course in Language and Foreign Studies (1-6)

Graduate Courses

36.690 Independent Study Project in Language and Foreign Studies (1-6)

Advanced and Topics Courses

Undergraduate Courses

37.200 The Soviet Union and the United States /S 3:2 (3) A comparative study of the two superpowers, the Soviet Union and the United States through an interdisciplinary approach with emphasis on the major similarities and

differences. The course draws topics primarily from international studies, political science, history, literature, and the arts. Taught in English. Usually offered once a year. *Prerequisite for General Education credit:* 33.120 or 53.120. *Note:* not open to students who have taken 00.200, 37.240, or 01.300 Russia and America.

37.210 Latin America: History, Art, Literature /A 3:2 (3) The history of Latin American through the words of the writer, the brush of the painter, the pen of the cartoonist, and the lens of the photographer. The Latin (Spanish, Portuguese, and Islamic), the African, and the Indian cultural heritages in Latin American history, and how these strands have combined to produce a unique Latin American culture. Taught in English. Usually offered every term. *Prerequisite for General Education credit:* 23.150 or 33.140. *Note:* not open to students who have taken 00.200 U.S. in the Western Hemisphere.

37.322 French Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Vocabulary expansion through a variety of classroom activities. Study of idioms, clichés, and style as used in spoken and written French. Designed for students who have studied French in the nonintensive track and who wish to continue to develop their practical skills in French. Usually offered every fall. *Prerequisite:* 36.223 or equivalent.

37.323 French Conversation and Composition II /A (3) Continuation of 37.322. Usually offered every spring. *Prerequisite:* 37.322 or equivalent.

37.324 French Intensive Conversation and Composition I /A (6) Usually offered every fall. *Prerequisite:* two years of college French or equivalent.

37.325 French Intensive Conversation and Composition II /A (6) Usually offered every spring. *Prerequisite:* 37.324 or equivalent.

37.326 French Topics (3) Courses taught in French on these topics: political life, the role of women, French politics, France today, French cinema, and advanced French translation. May be repeated for credit in the same term; topic must be different. Usually offered every term. Meets with 37.626. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.327 Introduction to French Literature (3) A systematic survey of the historical development of French literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.328 Introduction to French Translation (3) An introduction to the methods, techniques, and problems involved in translating from French into English. Emphasis is on the practice of translating general material with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered every fall. Meets with 37.628. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.330 German Grammar Review (3) A systematic review of German grammar, including the use of verbs, comparisons of adjectives and adverbs, prepositions, time expressions, modal auxiliaries, passive voice; with emphasis on adjective endings that present a special problem to students of German. Usually offered every fall. *Prerequisite:* 36.233 or equivalent.

37.331 Advanced Grammar Review (3) A systematic review of German grammar, including relative pronouns, relative clauses, conjunctions, special problems of word

order, infinitival constructions, extended noun modifiers, reflexive pronouns and verbs, with special emphasis on subjunctive I and II of regular, mixed regular, and irregular verbs in their respective tenses. Usually offered every spring. *Prerequisite:* 37.330.

37.332 German Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 37.330 or 37.331 or permission of instructor.

37.333 German Conversation and Composition II /A (3) Continuation of 37.332. Usually offered every spring. *Prerequisite:* 37.332.

37.336 German Topics (3) Courses taught in German on one of these topics: customs and manners, lands and regions, east and west, and survey of arts. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 37.332 or permission of instructor.

37.337 Introduction to German Literature (3) A systematic survey of the historical development of German literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* 37.332 or permission of instructor.

37.338 Introduction to German Translation (3) An introduction to the methods, techniques, and problems involved in translating from German into English. Emphasis is on the practice of translating general material, with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered every fall. *Prerequisite:* 37.333 or permission of instructor.

37.341 Russian Political Translation (3) Reading and translating selected Soviet sociopolitical texts and current periodical publications. Vocabulary expansion through study of word formation. Study of idioms, terms, and syntactic patterns. May be repeated for credit, but not within the same term; topic must be different. Usually offered every fall. *Prerequisite:* three years of college Russian or equivalent or permission of instructor.

37.342 Russian Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 36.243 or equivalent.

37.343 Russian Conversation and Composition II /A (3) Continuation of 37.342. Usually offered every spring. *Prerequisite:* 37.342 or equivalent.

37.347 Introduction to Russian Literature (3) A systematic survey of the historical development of Russian literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* two years of college Russian or equivalent.

37.350 Introduction to Hispanic Culture (3) This course traces the development of Hispanic culture in the Old and New World, with emphasis on the forming of values, customs, and institutions which have molded the realities of the Spanish world. Ethnic roots, the conquest of America, and the search for identity are among the topics analyzed. Usually offered alternate falls. *Prerequisite:* 36.253.

37.352 Spanish Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Two and a half hours a week. Usually offered every fall. *Prerequisite:* 36.253 or equivalent.

37.353 Spanish Conversation and Composition II /A (3) Continuation of 36.352. Usually every spring. *Prerequisite:* 37.352 or equivalent.

37.354 Spanish Intensive Conversation and Composition I /A (6) Usually offered every fall. *Prerequisite:* two years of college Spanish or equivalent.

37.355 Spanish Intensive Conversation and Composition II /A (6) Usually offered every spring. *Prerequisite:* 37.354 or equivalent.

37.356 Spanish Topics (3) Courses taught in Spanish on these topics: regions of Spain, the social scene in Latin America, customs and manners of Spain, regionalism in Latin America, survey of Latin American arts, Mexican culture, the River Plate and Chile, and race in Spanish-American literature. May be repeated for credit in the same term; topic must be different. Usually offered every term. Meets with 37.656. *Prerequisite:* 37.353 or 37.354 or permission of instructor.

37.357 Introduction to Spanish Literature (3) A systematic survey of the historical development of Spanish literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* 37.353 or 37.354 or permission of instructor.

37.358 Introduction to Spanish Translation (3) An introduction to the methods, techniques, and problems involved in translating Spanish into English. Emphasis is on the practice of translating general material, with some consideration of the translation of specialized material. Usually offered every fall. Meets with 37.658. *Prerequisite:* 37.353 or 37.354 or permission of instructor.

37.359 Spanish Translation: International Relations of Latin America (3) Discussion and practice in translating Spanish-language materials dealing with the international relations of Latin America. Review of basic methods, techniques, and problems involved in translating Spanish to English (with some consideration of translating English to Spanish). Usually offered every spring. Meets with 37.659. *Prerequisite:* 37.358 or permission of instructor.

37.390 Independent Reading Course in Language and Foreign Studies (1-6)

37.392 Cooperative Education Field Experience (3-9)

Note also: Consult the School of Education section of this publication for 21.340 and 21.446, courses that may be taken for credit toward a language major.

37.420 French Usage (3) An introduction to the cultural levels of the French language—colloquial French, standard French, formal French, familiar French—and to the differences between spoken and written French. Also included: study of literary prose, versification, dialects, and aspects of selected technical vocabularies. Designed for students who wish to understand the intricacies of the French language. *Prerequisite:* 37.326 and sophomore standing.

37.428 French Civilization I (3) France from the Middle Ages to the French Revolution a survey of political, social, and economic developments, emphasizing the differences between the *culture des élites* and *culture du peuple*, as

seen through primary sources. Usually offered every fall. *Prerequisite:* 37.326 and sophomore standing.

37.429 French Civilization II (3) France in the nineteenth and twentieth centuries. Study of the *nouveau régime*, the effects of the French revolutions on the social classes and their mental structures. Emphasis on the difference between the *culture des élites* and *culture du peuple*. Usually offered every spring. *Prerequisite:* 37.326 and sophomore standing.

37.438 German Civilization I (3) A chronological survey of German civilization from its beginning to the present. The course provides information necessary to the understanding of historical developments in politics, economics, fine arts, and intellectual movements. Conducted in German. Usually offered every fall. *Prerequisite:* 37.333 or permission of instructor.

37.439 German Civilization II (3) A continuation of 37.338. Conducted in German. Usually offered every spring. *Prerequisite:* 37.333 or permission of instructor.

37.442 Russian Literary Translation (3) Reading and translation of selected Russian and Soviet literary works. Vocabulary expansion through study of word formation. Study of idioms and syntactic patterns which present translation problems. May be repeated for credit but not in the same term; topic must be different. Usually offered every spring. *Prerequisite:* three years college Russian or permission of instructor.

37.450 Spanish Civilization I: Spain (3) A study of the geography, history, arts, and literature of Spain from the beginning to the present. Usually offered every fall. *Prerequisite:* three years of college Spanish or equivalent.

37.451 Spanish Civilization II: Latin America (3) A study of geography and complex process of the culture and history of the Latin American countries from the origin of the indigenous civilization to the present. Usually offered every spring. *Prerequisite:* three years of college Spanish or equivalent.

37.490 Independent Study Project in Language and Foreign Studies (1-6)

37.491 Internship: French (2-3) Supervised work-study program. Usually offered every term. *Prerequisite:* permission of instructor.

37.491 Internship: German (3-6) Supervised work-study program. Usually offered every term. *Prerequisite:* three years of college German or equivalent.

37.491 Internship: Russian (2-3) Supervised research and study based on comparison of selected readings and first-hand travel experience. Usually taken in conjunction with group travel to the Soviet Union. *Prerequisite:* permission of instructor.

37.491 Internship: Spanish (2-6) Proyecto Amistad: An internship program offering a wide variety of experiences in the Spanish-speaking community of Washington. Placements are available in bilingual schools, legal and consumer agencies, and national and international organizations. Advanced knowledge of Spanish is not required for undergraduate students. Usually offered every term. *Prerequisite:* permission of instructor.

Graduate and Advanced Undergraduate Courses

37.510 Methods in Foreign Language Teaching (1-3) Course is designed to familiarize students thoroughly with methods and materials used in teaching foreign lan-

guages. Instruction is individualized, taking into account participants' special needs, including the level at which they are preparing to teach. Usually offered every fall.

37.519 Visiting Scholar's Seminar (3) Flexible content pertaining to topics in foreign literatures, cultures, and linguistics. May be repeated for credit but not in the same term; topic must be different.

37.522 Eighteenth-Century France: Men and Ideas (3) Attitudes and ideas of the age of enlightenment as reflected in Montesquieu, Diderot, the Encyclopedists, Voltaire, and Rousseau.

37.523 French Romanticism (3) Development of the romantic movement in early nineteenth-century French literature. Analysis of sentiments of romanticists.

37.524 French Realism (3) Nineteenth-century French literature from the decline of romanticism to the turn of the century. Periods of expression known as realism, naturalism, and symbolism.

37.525 Contemporary French Literature (3) Topic changes each semester; emphasis on genre, movement, or major writers. May be repeated for credit but not in the same term; topic must be different.

37.529 Colloquium on France (3) Lectures, reports, and critical discussions on selected topics pertaining to France's current role in international politics. Cultural trends and economic problems. In French. May be repeated for credit in the same term; topic must be different. Usually offered every term.

37.533 Nineteenth-Century German Literature (3) From romanticism to realism and subsequent developments to the beginning of World War I. Selected representatives such as Heine, Keller, Storm, Stifter, Fontane, and the Naturalists.

37.535 Contemporary German Literature (3) Topic changes each semester; emphasis on the novel, drama, or poetry. May be repeated for credit but not in the same term; topic must be different.

37.539 Colloquium on Germany (3) Lectures, reports, and critical discussions on selected topics pertaining to Germany's current role in international politics. Cultural trends and economic problems. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.540 Russian Structure (3) Contemporary and historical analysis of the phonology, morphology, and syntax of Russian.

37.543 Russian Classics (3) Topic changes each semester; emphasis on life and works of major writers. May be repeated for credit but not in the same term; topic must be different.

37.545 Russian Drama (3) Topic changes each semester; emphasis on a major period or works of one outstanding Russian playwright. May be repeated for credit but not in the same term; topic must be different.

37.553 Spanish Classics (3) Topic changes each semester; emphasis on a period of Spanish literature from medieval epic to the generation of 1898. May be repeated for credit but not in the same term; topic must be different.

37.554 Classics of Latin American Literature (3) Topic changes each semester; emphasis on a period of Spanish-American literature and culture from the colonial era to

the present. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.559 Colloquium on Latin America (3) Lectures, reports, and critical discussions on peoples and governments of Latin America. Cultural trends, political and economic problems, and international relations. May be repeated for credit in the same term; topic must be different. Usually offered every term.

37.590 Independent Reading Course in Language and Foreign Studies (1-6)

Graduate Courses

37.626 French Topics (3) Courses taught in French on these topics: political life, the role of women, French politics, France today, French cinema, and advanced French translation. May be for credit within the same term; content topic must be different. Meets with 37.326. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.628 Introduction to French Translation (3) An introduction to the methods, techniques, and problems involved in translating from French into English. Emphasis is on the practice of translating general material with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered every fall. Meets with 37.328.

37.641 Advanced Russian Political Translation (3) Development and perfection of translation skills. Emphasis on contemporary political culture. Translation of materials from current Soviet press; *Pravda*, *Izvestia*, *Trud* and other papers and journals; vocabulary building; review of grammar and stylistics; demonstrations; classroom exercises; weekly home assignments; and weekly quiz. Individual translation project. Usually offered every fall.

37.642 Advanced Russian Literary Translation (3) Reading of selected original Russian and Soviet literary works. Emphasis on accurate literary translation into English. Study of idioms, difficult syntactic constructions, and stylistic levels which a good translator must master. May be repeated for credit but not in the same term; topic must be different. Usually offered every spring.

37.656 Spanish Topics (3) Courses taught in Spanish on these topics: regions of Spain, social scene in Latin America, customs and manners of Spain, regionalism in Latin America, survey of Latin American arts, Mexican culture, the River Plate and Chile, and race in Spanish-American literature. May be repeated for credit within the same term; topic must be different. Meets with 37.356. *Prerequisite:* two years of college Spanish or equivalent.

37.658 Introduction to Spanish Translation (3) An introduction to the methods, techniques, and problems involved in translating from Spanish to English. Emphasis is on the practice of translating general material, with some consideration of the translation of specialized material. Usually offered every fall. Meets with 37.358.

37.659 Spanish Translation: International Relations of Latin America (3) Discussion and practice in translating Spanish-language materials dealing with the international relations of Latin America. Review of basic methods, techniques, and problems involved in translating Spanish to English (with some consideration of translating English to Spanish). Usually offered every spring. Meets with 37.359.

37.690 Independent Study Project in Language and Foreign Studies (1-6)

37.691 Internship: Spanish—Proyecto Amistad (2-6)

An internship program offering a wide variety of experiences in the Spanish-speaking community of Washington, D.C. Placements are available in bilingual schools, legal and consumer agencies, and national and international organizations. Usually offered every term. Meets with 37.491. *Prerequisite:* permission of instructor.

37.692 Cooperative Education Field Experience (3-9)

37.702 Seminar in French Studies (3) Reports and critical discussion of research papers on French literature. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.704 Seminar in Russian Studies (3) Reports and critical discussion of research papers on Russian literature. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.705 Seminar in Spanish and Latin American Studies (3) Reports and critical discussion of research papers on Spanish and Latin American literature. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.797 Master's Thesis Seminar (1-6) May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

Linguistics

Undergraduate Courses

38.196 Language and Ethnicity (3) An introduction to sociolinguistics. How different groups deal with language, with emphasis on dialects in the United States: ethnic groups, and social, economic, and intellectual levels. Differences in race-the traditional assumptions about the nature of such differences and their effect on educability. Usually offered alternate springs.

38.199 International Vocabulary (3) This course traces the development of major language groups as a basis for analyzing language-related cultural and political cleavages in contemporary societies. The etymology of political terms and the contextual meaning of foreign words are examined. Problems of international communications are also considered. Usually offered alternate falls.

38.200 Language and Mind (3) This course examines the relationships between language and the mind and theories of first- and second-language acquisition. Theories of second-language acquisition in childhood and by older learners and how they relate to trends in society and education are considered. Usually offered alternate falls.

Graduate and Advanced Undergraduate Courses

38.500 Principles of Linguistics (3) Introduction to scientific study of language with emphasis on structural linguistics. Foundation for further study in linguistics and methodology of language teaching. Usually offered every term.

38.501 Theory and Practice of ELT I (3) Surveys the more recent methods of foreign language instruction. Description of English consonants, vowels, stress, and intonation. Techniques and materials for teaching hearing and speaking skills. Usually offered every fall and summer. *Prerequisite:* 38.500, which may be taken concurrently.

38.502 Theory and Practice of ELT II (3) Description of features of English grammar and of written English dis-

course. Techniques and materials for teaching grammar and reading and writing skills. Usually offered every spring and summer. *Prerequisite:* 38.500, which may be taken concurrently.

38.521 History of Linguistics and Language Teaching (3) Surveys the history of human attitudes toward language and methods of teaching languages from the time of the ancient Greeks to the present. Usually offered every spring.

38.522 Contrastive Analysis and Error Analysis (3) An introduction to the theory of contrastive analysis and error analysis. The presentation is eclectic and does not follow any particular school of thought exclusively. Offered irregularly. *Prerequisite:* 38.501 or 38.502.

38.523 Second-Language Acquisition (3) Theories of second-language acquisition and how they relate to trends in society and in education and related disciplines. Current theory in cognitive and affective domains as it relates to second-language learning. Offered irregularly. *Prerequisite:* 38.500.

38.524 Tests and Measurements in ESL/EFL (3) Theory and practice in testing English as a second or foreign language. Test development and use. The differences in prognostic, diagnostic, and achievement testing in second-language learning. Offered irregularly. *Prerequisite:* 38.501 and 38.502.

38.525 Teaching English for Specific Purposes (3) A survey of the range of subject matter and instructional situations included under "English for specific purposes." Sample instructional materials from several areas are examined in detail. Adaptation of materials and writing of original materials are required. Usually offered every fall. *Prerequisite:* 38.501 and 38.502.

38.527 Sociolinguistics (3) Examines variability and uses of language within various types of speech communities and the correlation with such nonlinguistic factors as the topic of discourse, the identity of the participants, and the setting of the communicative act. Both monolingual and multilingual societies in developed and developing areas will be considered. Usually offered alternate falls. *Prerequisite:* permission of instructor.

38.528 Bilingual Education (3) Language acquisition, use, and competency in a bilingual setting, and the general goal of bilingual education. *Prerequisite:* permission of instructor.

38.529 Program Development and Administration in ESL (3) Approaches, requirements, and problems in establishing and administering ESL/EFL programs at the elementary, secondary, and post-secondary school levels and in adult education programs. The major focus is on the post-secondary level. Offered irregularly. *Prerequisite:* permission of instructor.

38.552 Linguistic Structure I: Phonetics and Phonemics (3) Techniques of describing speech sounds in terms of articulatory movements and formulas. Practice in hearing and transcribing phonetic sounds using tape recordings. Basic premises of phonemic analysis and practical procedures for arriving at phonemes of a language. Offered irregularly. *Prerequisite:* 38.500.

38.553 Linguistic Structure II: Morphology and Syntax (3) Problems in analysis and description of morphological data. Introduction to transformational generative grammar. Offered irregularly. *Prerequisite:* 38.500.

38.590 Independent Reading Course in English or Linguistics (1-6)

Graduate Courses

38.620 Practicum in Teaching ESL/EFL (3) Observation, participation, and supervised teaching experience in ESL/EFL at a level appropriate to the student's career objectives: elementary, secondary, and post-secondary. Weekly conferences and seminars. Usually offered every spring. *Prerequisite:* 38.501 and 38.502.

38.690 Independent Study Project in English or Linguistics (1-6)

38.700 Seminar in Linguistics (3) Content varies. Reports and critical discussion of theoretical and practical problems in linguistics and TESL/TEFL. Critical evaluation of books and papers on appropriate subjects. May include the preparation of language teaching materials. Must include a research paper or project. May be repeated for credit but not within the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of the department.

38.797 Master's Thesis Seminar (1-6)

Computer Science and Information Systems

Computer Science

Undergraduate Courses

40.260 Introduction to Computing /N (4) A general introduction to computing for students who wish to understand how computers work, how computers affect their lives, and how computers are used in students' own disciplines. Basic programming skills are developed by the presentation and use of Pascal. This course does not serve as a prerequisite for 40.281 or other advanced computer-science courses. *Prerequisite:* 41.150 or three years of high-school mathematics.

40.280 Introduction to Computer Science I /N (4) Problem solving and algorithm development. Structured programming in Pascal. Basic data types and canonical structures; arrays and subprograms; recursion. Social implications of computing. Elementary applications from business and science. *Prerequisite:* completion of or concurrent registration in 41.170, 41.211 or 41.221.

40.281 Introduction to Computer Science II /N (3) Continuation of problem solving in Pascal. Emphasis on larger programs built from modules. Introduction to abstract data structures: stacks, queues, graphs and trees and their implementations and associated algorithms. Elementary numerical methods. *Prerequisite:* 40.280, and 41.211 or 41.221 (41.211 or 41.221 may be taken concurrently).

40.282 Assembly-Language Programming (4) Basic concepts of computer architecture and organization. Assembly-language programming: instruction formats, addressing techniques, macros, and input/output. Program segmentation and linkage. The assembly process. *Prerequisite:* 40.281 or permission of the department.

40.320 Introduction to File Design (3) An examination of the structure of files and of the input/output facilities. Topics include file usage, file design, file organization,

media limitations, and data definition statements. The IBM environment is stressed; other environments are discussed as time permits. *Prerequisite:* 40.281 and 40.282.

40.330 Organization of Computer Systems (3) Logical circuit design, integrated circuits and digital functions, data representation, register transfer operations and microprogramming, basic computer organization, the central processor and arithmetic operations. Not open to students who have taken 40.540. Usually offered every term. *Prerequisite:* 40.281 and 40.282.

40.336 Pascal and Elementary Data Structures (3) Problem solving in Pascal, including string processing, use of pointers, files and recursion. Introduction to stacks, queues, linked lists, binary trees, searching, and sorting algorithms. This is a course for students with the ability to program well in a high-level programming language other than Pascal. (Not open to students with credits in 40.280 or 40.281.) Usually offered every fall. *Prerequisite:* 55.235

40.340 Data Structures and Algorithms (3) Basic techniques of design and analysis of efficient algorithms. Implementation and manipulation of data structures, including linked lists, stacks, queues, trees, and graphs. Memory management. Internal and external searching and sorting. *Prerequisite:* 40.281 and 40.282.

40.341 Organization of Programming Languages (3) Survey of desirable features and specifications of programming languages by investigation of data types, control structures, data flow, and run-time behavior of several languages, such as FORTRAN, LISP, Ada, etc. Basic elements of compiling and interpreting. At least one non-Pascal-like language (such as LISP) is studied in detail. *Prerequisite:* 40.282 and 40.340.

40.345 Software Engineering (3) Presents techniques and tools in software design and development and applies them to the design and implementation of a large software system. Topics include the software life cycle—requirements, design, implementation, testing and debugging, maintenance and documentation; user interface. And software reliability, portability, and expandability. A team project consists of all different phases of the software life cycle. Usually offered every spring. *Prerequisite:* 40.340 or permission of instructor.

40.350 Introduction to Discrete Structures (3) Introduction to mathematical topics required in computer science, such as graphs, sets and relations, boolean logic, and finite state automata. *Prerequisite:* 40.281 and either 41.211 or 41.221.

40.365 Introduction to Operating Systems (3) A survey of the resource-management strategies used in contemporary operating systems. Topics include the management of primary storage, processors, processes, peripheral devices, files, and other common subsystems. *Prerequisite:* 40.330, 40.340, and 42.202.

40.382 Automata, Languages, and Computability (3) Introduction to the fundamental concepts underlying computing. Finite state, push-down, linear bounded automata. Regular expressions, context-free and context-sensitive grammars. Turing machines and computability, universal machines, computable and non-computable functions, halting problem. *Prerequisite:* 40.350 and 40.341.

40.390 Independent Reading Course in Computer Science (1-6)

40.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

40.460 Introduction to Numerical Methods (3) Introduction to numerical algorithms fundamental to scientific computation. Includes discussion of error, solution of polynomial equations, and solution of systems of algebraic equations. *Prerequisite:* 40.280 and 41.310.

40.490 Independent Study Project in Computer Science (1-6)

Graduate and Advanced Undergraduate Courses

40.510 Legal Issues in Computing (3) Copyright, patent, contract, tort, antitrust, privacy, and telecommunications issues. *Prerequisite:* some knowledge of computers.

40.520 Algorithms and Data Structures (3) Design and analysis of efficient algorithms. Implementation and manipulation of data structures, including linked lists, stacks, queues, trees, and graphs. Memory management. Internal and external searching and sorting. *Prerequisite:* 40.281 and 40.282 (not open to students with credit in 40.340).

40.521 Design and Organization of Programming Languages (3) Study of desirable features and specifications of programming languages by investigation of data types, control structures, data flow, and run-time behavior of several languages, such as FORTRAN, LISP, Ada, etc. At least one non-Pascal-like language (such as LISP) is studied in detail. Elements of compiling and interpreting. *Prerequisite:* graduate standing and 40.282 (40.520 is recommended; not open to students with credit in 40.341).

40.540 Computer System Organization and Programming (3) Investigation of the structure of a modern computing system. Alternative computer organizations are discussed so that students may appreciate the range of possible design choices. Assembly, linking, and loading are presented in detail. The relation between system software and computer organization is discussed. *Prerequisite:* 40.282 and 40.340 or graduate standing and 40.520 concurrently (not open to students with credit in 40.520).

40.541 Computer Architecture (3) Presents the essential notions of computer system design by investigating a wide range of historic, existing, and proposed computer architectures. Topics include meta representation, data representation, instructions and addressing, interpretation and control, memory hierarchies, specialized computers, multiple computers, reliability, and system-design evaluation. *Prerequisite:* 40.540 or 40.330.

40.546 Introduction to Computer Networks (3) An introduction to the basic concepts of computer networks. The architecture of data communication systems, the seven-layer model of a network, and the physical, data link, network, transport, and session layers are explored. Protocol algorithms are considered for the implementation of the various network layers. *Prerequisite:* 40.520 (or 40.340), 40.540 (or 40.330), 41.221 and 42.202.

40.560 Microcomputer Architecture (3) Fundamental concepts of hardware and software systems for microprocessors and micro- and minicomputers. Topics include digital logic, computer arithmetic, input/output, internal and external memory, peripheral device interfaces, and applications. *Prerequisite:* 40.540 or 40.330.

40.565 Operating Systems (3) Historical background. Operating system functions and concepts: processes, pro-

cessor allocation, memory management, virtual memory, I/O and files, protection, design, and implementation. Several existing operating systems are discussed. A group project to design and implement a small operating system is usually required. *Prerequisite:* 40.520 and 40.540 (or 40.330, 40.340, and 40.365).

40.566 Introduction to Compilers (3) Design and implementation of compilers. Topics include lexical analysis, syntactic analysis, code generation and optimization, and error recovery. A term project to design and implement a compiler for a small programming language is usually required. *Prerequisite:* 40.521 (or 40.341) and 40.540 (or 40.330).

40.568 Artificial Intelligence (3) Application of computers to tasks usually considered to require human intelligence, such as game playing, problem solving, learning, pattern recognition, natural language understanding, and expert systems. *Prerequisite:* 40.520 (or 40.340) and 40.521 (or 40.341).

40.570 Data Management Systems (3) A survey of the history, principles, design, and applications of database management systems. Topics: basic concepts; storage; the relational, hierarchical, and network approaches; security and integrity; distributed databases; concurrency control. Several existing data-management systems are studied. A project involving design of a small database or (part of) a small DBMS is usually required. *Prerequisite:* 40.520 (or 40.340) and 40.540 (or 40.330).

40.582 Formal Languages and Automata (3) Chomsky hierarchy of grammars. Finite state acceptors and regular expressions. Push-down automata and linear bounded automata. Turing machines and the halting problem. The notion of effective computability. *Prerequisite:* 40.521 (or 40.341) and 40.350 or permission of instructor.

40.584 Computer Graphics (3) Overview of display technology: cathode ray tubes (CRTs), digital control of CRTs, other displays, applications, interactive devices, hard copy, and graphics system design. Graphics software: high-level languages for graphics, programming interactive devices, display files, design of graphics systems, transformations in two and three dimensions, gray scales, color, cropping, and hidden lines. *Prerequisite:* 40.520 (or 40.340), 40.540 (or 40.330); 41.310 is recommended.

40.590 Independent Reading Course in Computer Science (1-6)

Graduate Courses

40.620 Design and Analysis of Algorithms (3) Study of algorithms by category, such as divide-and-conquer, dynamic programming, and state space search, computational complexity, and NP-complete problems. Analysis of practical techniques. *Prerequisites:* 40.520 and must have taken the comprehensive examination.

40.646 Computer Network Design and Analysis (3) Design and analysis problems relating to computer communications networks. Capacity assignment techniques are applied to different network topologies. Queuing theory is used to allocate limited network resources. Network design algorithms, routing, and flow control techniques are investigated. *Prerequisite:* 40.546 and 41.501 or permission of instructor; must have taken the comprehensive examination.

40.690 Independent Study Project in Computer Science (1-6)

40.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

40.700 Seminar in Computer Science (3) May be repeated for credit but not in the same term; topic may be the same. *Prerequisite:* must have taken the comprehensive examination.

40.797 Master's Thesis Seminar in Computer Science (1-6)

Mathematics and Statistics

Mathematics

Undergraduate Courses

Note: Courses 41.021, 41.022, and 41.023 are intended for students with inadequate background for other courses in mathematics. Placement testing is available from the department. None of these courses fulfills the mathematics requirements for a degree program nor does any carry credit toward graduation. All are usually offered every term.

41.021 Basic Arithmetic (1) No academic credit is received for this course.

41.022 Basic Algebra (3) An introduction to algebra. Topics include a review of integer and rational numbers; solving linear equations in one or two variables; word problems; polynomials and rational expressions; radicals; the quadratic formula; some graphing techniques. No academic credit is received for this course.

41.023 Intermediate Algebra (1) A review of the properties of real numbers, solving linear equations in one and two variables, polynomials and functions, fractional expressions, exponents, powers and roots, quadratic equations, exponential and logarithmic functions. No academic credit is received for this course.

41.150 Finite Mathematics (3) Review of algebra, sets, linear equations and inequalities, nonlinear inequalities, interest problems, systems of linear equations, linear programming, functions and graphs, and elementary data analysis. No credit toward mathematics major. Usually offered every term. *Prerequisite:* two years of high-school mathematics.

41.170 Precalculus Mathematics /N (3) Fundamentals of algebraic, logarithmic, exponential, and trigonometric functions for students planning to take 41.221. 41.150 and 41.170 may not both be used to fulfill the mathematics requirements for any major program. Usually offered every term. *Prerequisite:* three years of high-school mathematics or 41.150 or permission of instructor.

41.211 Applied Calculus I /N (4) Continuity, limits, differentiation, and integration. Applications to biological, social, and environmental sciences and business. Brief study of matrices and matrix operations. No credit toward a mathematics, mathematical statistics, or applied mathematics major, but together with 41.212 meets calculus requirement for applied statistics majors. Students may not receive credit toward a degree for both 41.211 and 41.221. *Prerequisite:* 41.150 or permission of instructor.

41.212 Applied Calculus II /N (3) Calculus of several variables, matrices, series, and differential equations. Ap-

plications to biological, social, and environmental sciences and business. No credit toward mathematics, mathematical statistics, or applied mathematics major, but together with 41.211 meets requirement for applied statistics or computer science majors. Students may not receive credit toward a degree for 41.212 if they have taken 41.222 or 41.223. *Prerequisite:* 41.211 or 41.221.

41.221 Calculus I /N (4) Real numbers; coordinate systems; functions; limits and continuity; differentiation and applications; trigonometric functions; indefinite and definite integration and applications; fundamental theorem of integral calculus. Students may not receive credit toward a degree for both 41.211 and 41.221. Usually offered every term. *Prerequisite:* 41.170 or four years of high-school mathematics.

41.222 Calculus II /N (4) Techniques of integration, calculus of transcendental functions, infinite series, power series representations, and analytic geometry. Usually offered every term. Students may not receive credit for 41.222 if they have taken 41.212. *Prerequisite:* 41.221.

41.223 Calculus III (4) Vectors, functions of several variables, partial differentiation, and multiple integrals. *Prerequisite:* 41.222.

41.310 Linear Algebra (3) Vector spaces, systems of linear equations, solutions by matrices, determinants, linear transformations, and algebraic forms. *Prerequisite:* 41.212 or 41.222 or taken concurrently with 41.222.

41.321 Differential Equations (3) First-order equations; linear equations of higher order; solutions in series; separation of variables in partial differential equations and Fourier series; applications to mechanics, electrical circuits, and biology; topics from numerical methods. Usually offered every fall and summer. *Prerequisite:* 41.223 or taken concurrently.

41.322 Advanced Calculus (3) Point sets in several variables, partial derivatives, Lagrange multipliers, Jacobians, implicit and inverse transformation theorems, quadratic forms, vectors and line integrals, theorems of Green, Gauss, and Stokes. Usually offered every spring. *Prerequisite:* 41.223

41.390 Independent Reading Course in Mathematics (1-6)

41.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication

41.490 Independent Study Project in Mathematics (1-6)

Graduate and Advanced Undergraduate Courses

41.501 Probability (3) Algebra of sets; probability in discrete sample spaces; combinatorial analysis; random variables; binomial, Poisson, normal, and other distributions; and applications. Usually offered every fall. Not open for credit for graduate students in mathematics or statistics. *Prerequisite:* 41.212 or 41.222.

41.512, 41.513 Introduction to Modern Algebra I, II (3), (3) Groups, rings, vector spaces and modules, fields, and Galois theory. 41.512 usually offered every fall; 41.513 usually offered every spring. *Prerequisite:* 41.310 or permission of instructor.

41.515 Number Theory (3) Divisibility, fundamental theorem of arithmetic, congruences, arithmetic functions, diophantine equations, quadratic residues, sums of

squares, and partitions. Usually offered alternate springs. *Prerequisite:* 41.222.

41.520, 41.521 Introduction to Analysis I, II (3), (3) Analysis in Euclidean and metric spaces, point sets, completeness, convergence, continuity, differentiability, and integration. 41.520 usually offered every fall; 41.521 usually offered every spring. *Prerequisite:* 41.322 or permission of instructor.

41.540 Topology (3) Topological spaces, continuity, compactness, connectedness, and metric spaces. *Prerequisite:* 41.223 and 41.310.

41.550 Complex Variables for Applications (3) Cauchy's theorem and integral formulas. Residue theorem and contour integration. Conformal mapping. Fourier series, integrals, transforms, and inverse transforms. Laplace transform methods. Usually offered every fall. *Prerequisite:* 41.321 or 41.223.

41.551 Mathematics for Physics (3) Oscillatory systems and normal modes. Eigenvalues and diagonalization of matrices. Wave equation. Vibrating strings and membranes. Orthogonal functions. Heat equation. Laplace's equation. Green's function. Variational methods. Tensors. Usually offered every spring. *Prerequisite:* 41.550.

41.560 Numerical Analysis: Basic Problems (3) Computer arithmetic and error analysis in computation, matrix decomposition methods in solving systems of linear equations and linear least squares problems, polynomial approximation and polynomial data fitting, iterative algorithms for solving nonlinear equations, numerical differentiation and integration. *Prerequisite:* 40.280, 41.310, and 41.322, or permission of instructor.

41.574 Theory of Probability (3) Random variables, distribution functions, generating and characteristic functions, special distributions and statistics, and limit theorems. Usually offered every fall. *Prerequisite:* 41.223 and 41.501 or permission of instructor.

41.580 Topics in Mathematics (3) Topics include the following: foundations/set theory/logic, matrix theory, algebraic topology measure and integration, functional analysis, ring theory, history of mathematics, modern geometry, and advanced modern linear algebra. Prerequisites announced for each offering.

41.581 Topics in Applied Mathematics (3) Topics include the following: ordinary/partial differential equations, special functions, integral equations, mathematics of fluid dynamics, and numerical analysis. Prerequisites announced for each offering.

41.585 Mathematics Education (3) Curriculum construction and program design, instructional effectiveness, methods and technology for teaching mathematics. Different approaches for students with a variety of mathematical and cultural backgrounds. Required of all students in mathematics education. Usually offered every fall.

41.590 Independent Reading Course in Mathematics (1-6)

Graduate Courses

41.620 Analytic Functions I (3) Differentiation and integration of complex-valued functions, analyticity, Cauchy's theorems, Laurent series, singularities, contour integration and residue calculus, conformal mapping, analytic continuation, and Weierstrass's and Mittag-Leffler's theorems. Usually offered alternate falls. *Prerequisite:* 41.521.

41.625 Calculus of Variations (3) Extremization of functionals. Euler, Legendre, Weierstrass, and Jacobi necessary conditions. Sufficient conditions for weak and strong extrema. Extremal fields and Hilbert's invariant integral. Isoperimetric problems and inequalities. Direct methods. Usually offered alternate springs. *Prerequisite:* 41.551.

41.630 Measure and Integration (3) Measurability, integration, and convergence theorems. L_p spaces, modes of convergence, differentiation, and introduction to probability. Usually offered alternate falls. *Prerequisite:* 41.521.

41.654 Partial Differential Equations of Mathematical Physics I (3) Second-order hyperbolic equations, characteristics, Cauchy and Goursat problems, Riemann's method, and quasilinear equations. Legendre transformation, wave equation in n -dimensions, spherical means, and Hadamard's method. Usually offered alternate falls. *Prerequisite:* 41.524 or 41.551.

41.655 Partial Differential Equations of Mathematical Physics II (3) Second-order elliptic, parabolic, and mixed equations, problems of Dirichlet and Neumann, Green's function, potentials of volume and surface distributions, diffusion phenomena, and Tricomi's equation. Usually offered alternate springs. *Prerequisite:* 41.654.

41.685 Practicum in Mathematics Education (3) Internships in cooperating school systems, colleges and other organizations involving teaching, strategic planning and implementation. Required of all students in the Ph.D. program in mathematics education. Usually offered every spring.

41.690 Independent Study Project in Mathematics (1-6)

41.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

41.790 Research Seminar in Mathematics Education (3) In-depth exploration of current issues in mathematics education. A research paper and presentation are required. Course required of all students in the Ph.D. program in mathematics education. May be repeated for credit, but not within the same term; topic may be the same. Usually offered every spring.

41.797 Master's Thesis Seminar in Mathematics (1-6)

41.799 Doctoral Dissertation Seminar in Mathematics (1-12)

Statistics

Undergraduate Courses

42.202 Basic Statistics /N (4) Classification of data, averages, dispersion, probability, frequency distributions, confidence intervals, tests of significance, nonparametric techniques, simple regression, and correlation. A package of computer programs is used to demonstrate various statistical techniques. Separate sections are available for biology, business, economics, psychology, education, sociology, and government majors. Usually offered every term. *Prerequisite:* 41.150 or permission of department.

42.300 Business Statistics /N (3) Estimation, inference, multiple regression, and correlation. Elementary decision theory. Usually offered every term. *Prerequisite:* a grade of C or better in 42.202, or permission of department.

42.390 Independent Reading Course in Statistics (1-6)

42.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication

42.490 Independent Study Project in Statistics (1-6)

Graduate and Advanced Undergraduate Courses

42.502 Introduction to Mathematical Statistics (3) Probability, probability distributions, sampling, sampling distributions, and introduction to the theory of point estimation and statistical inference, including confidence intervals and hypothesis testing. Not open for credit to graduate students in mathematics or statistics. Usually offered every spring. *Prerequisite:* 41.212 or equivalent and 41.501, or permission of instructor.

42.510, 42.511 Theory of Sampling I, II (3), (3) Mathematical development of basic principles of survey design, including methods for determining expected value, bias, variance, and mean square error; simple random, systematic, stratified, cluster, multistage, and double sampling; unbiased, ratio, regression, and composite estimation; optimum allocation of resources; controlled and other nonsimple methods of selection; introduction to measurement error; and comparison of alternative designs. 42.510 usually offered alternate falls; 42.511 usually offered alternate springs. *Prerequisite:* 42.502 or equivalent.

42.514 Statistical Methods (3) Averages, dispersion, probability, sampling, and approach to normality; simple and multiple regression; tests and confidence intervals for means, proportions, differences, and regression coefficients; nonparametric statistics; and analysis of variance. Usually offered every term. Not open for credit to students who have taken 42.300. *Prerequisite:* 42.202 or equivalent.

42.515 Regression (3) Simple and multiple regression; least squares; curve fitting; graphic techniques; and tests and confidence intervals for regression coefficients. *Prerequisite:* 42.514 or equivalent.

42.516 Design of Experiments (3) Design and analysis of the results of balanced experiments, simple analysis of variance, components of variance, analysis of covariance, and related topics. *Prerequisite:* 42.514 or equivalent.

42.517 Special Topics in Statistical Methodology (3) Alternating topics in statistics treated from an applied viewpoint. Topics include sampling, multivariate techniques, factor analysis, and time series. May be repeated for credit in the same term; topic must be different. *Prerequisite:* 42.514 or equivalent.

42.519 Nonparametric Statistics (3) Application of nonparametric techniques in the analysis of social-science data, with emphasis on tests appropriate for data having interval, nominal, and ordinal scales. *Prerequisite:* 42.514 or permission of instructor.

42.520 Applied Multivariate Analysis (3) Introduction to multivariate analysis emphasizing statistical applications. Topics include matrix theory, multivariate distributions, tests of hypotheses, multivariate analysis of variance, principal components, discriminant analysis, canonical correlation, multivariate regression, and related topics. Usually offered every fall. *Prerequisite:* 42.514 or equivalent.

42.521 Analysis of Frequency Data (3) Chi-square tests, contingency tables (2×2 , $r \times c$), and multidimensional, loglinear models, and other special models. Usually offered every spring. *Prerequisite:* 42.514 or equivalent.

42.522 Time-Series Analysis (3) An introduction to the theory of time-dependent data. The analysis includes modeling, estimation, and testing, alternating between the time domain, using autoregressive and moving average models, and the frequency domain, using spectral analysis. Usually offered alternate springs. *Prerequisite:* 42.515 or 42.520 or permission of instructor.

42.523 Factor Analysis (3) Introduction to factor analysis emphasizing applications of factor techniques. Topics include factor analysis models, matrix and geometric concepts, communality, transformations, direct factor solutions, derived factor methods, rotations, and find factor scores. Usually offered every summer. *Prerequisite:* 42.514 or equivalent.

42.524 Data Analysis (3), (3) An introduction to the topics of exploratory data analysis, including resistant or robust techniques, study of residuals, transformations, graphical displays, and related topics. Usually offered every spring. *Prerequisite:* 42.515 or 42.520 or equivalent.

42.530, 42.531 Mathematical Statistics I, II (3), (3) Distribution and functions of random variables, generating functions, order statistics, point estimation, maximum likelihood, confidence intervals, tests of hypotheses (Neyman-Pearson, likelihood ratio, etc.), linear regression, and analysis of variance. 42.530 usually offered every fall; 42.531 usually offered every spring. *Prerequisite:* 41.223, 42.502 or equivalent, and 41.310.

42.584 Introduction to Stochastic Processes (3) Introduction to random walks, Markov chains and processes, Poisson processes, recurrent events, birth and death processes, and related topics. Usually offered every spring. *Prerequisite:* 41.501 or 42.530 or 41.574.

42.590 Independent Reading Course in Statistics (1-6)

Graduate Courses

42.600 Advanced Mathematical Statistics I (3) Theory of estimation, properties of estimators, large-sample properties and techniques, and applications. Usually offered every fall. *Prerequisite:* 42.531 and 41.574 (may be concurrent).

42.601 Advanced Mathematical Statistics II (3) Mathematical foundations of statistical theory. Special topics in mathematical statistics. Usually offered every spring. *Prerequisite:* 42.600.

42.604, 42.605 Statistical Decision Theory I, II (3), (3) Convex sets and functions, minimax theorem, statistical games, utility and principles of choice, strategies, complete classes, Bayes procedures, principles of invariance, sequential procedures, and related topics. 42.604 usually offered alternate falls; 42.605 usually offered alternate springs. *Prerequisite:* 42.600 (may be taken concurrently).

42.620, 42.621 Multivariate Analysis I, II (3), (3) Multivariate normal distribution, Hotelling's T , Wilks's likelihood ratio criterion, other test statistics, classification problems, principal components, canonical correlation, general multivariate regression and experimental designs, and related topics. 42.620 usually offered alternate falls; 42.621 usually offered alternate springs. *Prerequisite:* 41.510 and 42.600 (may be taken concurrently).

42.640 Statistical Computing (3) An introduction to numerical analysis, computer science, and statistical theory as they apply to random number generation, the Monte Carlo method, simulations, and other aspects of statistical

computing. Usually offered alternate falls. *Prerequisite:* 40.520, 41.560, and 42.531.

42.670, 42.671 Linear Estimation I, II (3), (3) General linear hypothesis, least-squares estimation, Gauss-Markov theorem, regression, analysis of variance, multiple comparisons, analysis of covariance, factorial designs, randomized blocks, other experimental designs, and effects of departures from assumptions. 42.670 usually offered alternate falls; 42.671 usually offered alternate springs. *Prerequisite:* 41.510 and 42.600 (may be taken concurrently).

42.690 Independent Study Project in Statistics (1-6)

42.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

42.797 Master's Thesis Seminar in Statistics (1-6)

42.799 Doctoral Dissertation Seminar in Statistics (1-12)

Health and Fitness

Undergraduate Courses

49.100 Beginning Swimming (1) This course is designed for students who are unable to maintain themselves in deep water. Students overcome the fear of the water and learn to feel at ease in aquatic environments while learning basic swimming skills.

49.101 Intermediate Swimming (1) Instruction in swimming skills and techniques for students interested in perfecting their swimming strokes, endurance, and associated aquatic skills. Course is designed to enhance the basic swimming skills of the student. *Prerequisite:* 49.100 or ability to pass Beginner's Test.

49.102 Lifesaving/Lifeguard Training (2) Development of safety skills, use of lifesaving equipment, and techniques of swimming rescues. Students meeting American Red Cross requirements earn A.R.C. Life-Saving Certificate. Usually offered every fall. *Prerequisite:* 49.270 or valid First Aid and CPR certification; 49.101 or permission of instructor.

49.110 Bowling (1) Develops basic and intermediate skills. Includes: history, scoring, terminology, and spare conversion. Culminates in league play. This course is offered irregularly.

49.120 Beginning Martial Arts (1) Introductory course designed for the beginner to develop the basic skills of the martial arts. Physical and mental discipline is stressed, as well as self-defense techniques. Flexibility, balance, endurance, and strength are improved. The course prepares the student to advance to the Tae Kwon Do rank of Yellow Belt.

49.121 Intermediate Martial Arts (1) Continuation of the development of the martial arts skills. Additional techniques and forms are presented. The course prepares the student to advance to the Tae Kwon Do rank of the Green Belt. Usually offered every term. *Prerequisite:* 49.120 or permission of instructor.

49.122 Advanced Martial Arts (2) For the dedicated student seeking to further develop the skills and techniques of the martial arts to a more advanced degree. A more rigorous level of training than 49.121 is required.

Attainment of belt ranking may vary. *Prerequisite:* 49.121 or permission of the instructor.

49.125 Personal Defense (1) Introduction to the basic principles of self-defense. Emphasis is placed on perfecting the basic skills and techniques in protecting oneself. Physical conditioning, strength, and flexibility are attained, along with the understanding of the legal and psychological aspects involved in personal defense.

49.140 Fencing (1) A general overview of the techniques, strategies, and psychology of foil fencing, with an emphasis on the historic perspectives and traditions from a variety of cultures. There is a dual emphasis between developing physical skills and studying the implementation of tactics in situations in the world of fencing.

49.150 Golf (1) The course is designed for the beginning player. Skill work consists of grip, stance, and swing techniques for putting, short irons, middle irons, and woods. Spectral emphasis is placed on rules, terminology, and etiquette. The major objective of this course is to prepare the student for a rewarding experience on the golf course.

49.151 Advanced Golf (2) The course is designed for the player with limited skills and playing experience. The class consists of weekly playing rounds at local courses with the instructor. Students are responsible for clubs, transportation, and green fees. Students receive instruction in advanced skills and techniques. Usually offered every fall. *Prerequisite:* 49.150 or permission of instructor.

49.170 Recreational Activities (1-3) Development of skills, techniques, and knowledge of selected individual, dual, and team activities with emphasis on seasonal sports. Content varies. May be repeated for credit in the same term; topic must be different.

49.171 Beginning Horseback Riding (1) Designed for the student with little or no previous riding experience. Students learn how to groom and saddle horses. Riding techniques include proper positioning, controlling the horse at a walk, posting, and sitting trot.

49.172 Intermediate Horseback Riding (1) This course is designed for the rider who already knows how to trot (both posting and sitting). Additional skills are taught including introduction to jumping and cantering. Usually offered every term. *Prerequisite:* 49.171 or permission of instructor.

49.173 Advanced Horseback Riding (2) For the experienced rider seeking to advance their skills. Students learn more effective horse control through seat and leg aids. Additional skills include: striding, stadium course jumping, cross country jumping, and trail riding. Usually offered every term. *Prerequisite:* 49.172 or permission of instructor.

49.180 Beginning Tennis (1) The course is designed for beginners who have had little or no playing experience and no formal instruction. Students learn the following strokes: forehand, backhand, serve, and lob. Usually offered every term.

49.181 Intermediate Tennis (1) The course is for students who can play singles and doubles and execute the basic strokes. Instruction includes basic stroke refinement and development of the lob, overhead, spin, slice serve, and other skills. Additional content in rules, backhand, techniques, and strategy. Usually offered every term. *Prerequisite:* 49.180 or permission of instructor.

49.182 Advanced Tennis (2) This course is designed to further the skilled player's game in advanced strokes, strategies, and psychological dimensions. Usually offered every fall. *Prerequisite:* 49.181 or permission of instructor.

49.185 Racquetball/Squash (1) This course is designed to develop the fundamental skills, strategies, and techniques of racquetball and squash. Usually offered every term.

49.193 Aquatic Fitness/Water Aerobics (2) The object of this course is to develop cardiorespiratory fitness through aquatic activities. The theoretical applications of fitness are also included. The course offers an alternative to jogging.

49.195 Principles and Techniques of Weight Training (2) An overview of muscle anatomy, exercise physiology, and biomechanics as they apply to the development of muscle strength. Systems and principles of weight training. Practical experience in strength development through a progressive resistance program. Usually offered every term.

49.197 Aerobic Dance (2) Using aerobic activity to develop and maintain body awareness in five major areas: cardiovascular and muscular endurance, flexibility, muscular strength, and promotion of ideal body composition through activity with music. The goal is the reduction of emotional tension, greater productivity, improved performance, transformation of fat-burning enzyme, and a healthier cardiovascular system. Usually offered every term.

49.200 Lifetime Fitness Lecture Series /S (3) The physiological, sociological, psychological, and economic implications of health. The course emphasizes the importance of self-responsibility for total well-being and provides students a foundation on which to build a healthful lifestyle. A physiological assessment and a health-risk appraisal are completed at the beginning and end of the course. Must be taken concurrently with 49.201. Usually offered every term.

49.201 Lifetime Fitness Activity Series (1) This activity series involves the student in a variety of physical activities over the semester. Students learn and experience the physiological benefits of exercise and the importance of practicing these throughout a lifetime. A physiological assessment will be completed at the beginning and end of the semester to measure the student's progress. Must be taken concurrently with 49.200. Usually offered every term.

49.209 Growth and Development Throughout the Life Cycle (3) This course focuses on the physiological, psychological, and social development of the individual throughout the life cycle. An interdisciplinary approach is used. Usually offered every fall.

49.210 SCUBA (2) The course provides a balanced curriculum in skin and SCUBA diving, providing practical skill development in the pool and a thorough grounding in the physics, physiology, technology, and history of sport diving. Usually offered every term.

49.211 SCUBA Certification Laboratory (1) Includes five open-water dives in salt and fresh water, additional equipment training, and an introduction to boat as well as shore staging for sport diving. Basic rescue techniques are introduced. The laboratory, in conjunction with the standard course, is sufficient to qualify the student as a certified basic diver under the standards of a nationally recognized

certifying organization. Usually offered every term. *Prerequisite:* must be taken concurrently with 49.210.

49.240 Nutrition and Modern Food /N (3) Normal nutrition in relation to the needs of individuals and demands of world population. Current social, ecological, and economic problems are discussed in light of world food needs. Questions about pesticides, food additives, food analogs, "natural" and "organic" foods are considered. Usually offered every term.

49.250 Stress Reduction (3) A combination lecture and laboratory course which examines the nature and causes of stress, its effect on the human body, and the techniques to control both the stress and the effect. Methods such as meditation or concentration, value systems, exercise, and progressive neuromuscular relaxation are included. Usually offered every term.

49.270 First Aid, CPR, and Medical Emergencies /S (3) Training in basic first aid and CPR (Cardio-Pulmonary Resuscitation). Instruction on treatment of wounds, specific and nonspecific injuries, application of bandages and dressings, splinting fractures and dislocations, emergency rescue techniques, etc. Certification by the American Red Cross in Standard First Aid and Basic Rescuer CPR.

49.301 Water Safety (2) Two-part course covering the skills necessary for teaching the skills involved in basic swimming and lifesaving/lifeguard training. Satisfactory completion leads to an A.R.C. Water Safety Instructor Certification. *Prerequisite:* Current advanced lifesaving, CPR, and either swimmers ARC certification or ability to pass swimmers test.

49.315 Care and Prevention of Athletic Injuries (4) The basic concepts and techniques in the prevention, treatment, and reconditioning of sports injuries. Use and techniques of taping, strapping, and padding. Includes laboratory. Usually offered every spring. *Prerequisite:* 49.270 or permission of instructor.

49.323 Women's Health /N (3) Designed to provide a better understanding of women and increase interest in the maintenance of health. Topics such as health problems, pregnancy, rape, and abortion are discussed. Usually offered every term.

49.327 Dealing with Sexual Assault (3) The psycho-social and medico-legal aspects of sexual assault. Topics include: definitions; myths versus facts; preventive measures; motivations and strategies of the assailant; police, medical, and legal procedures; psychological reactions; and counseling techniques for victim and family. Consideration is given to male, female, adult, and child victims. Usually offered every fall.

49.330 Health and Wellness (3) Introductory health science. Making informed personal health decisions. Discussion of current health issues as they apply to students now and in the future. Usually offered every spring.

49.340 Camping and Backpacking (3) Methods, techniques, and skills related to camping, backpacking, and hiking. Includes selection of equipment and camp site, orienteering, cooking, and implications for ecology and conservation. Overnight field experience required during course.

49.390 Independent Reading Course in Health and Fitness (1-6)

49.425 Physiology of Exercise (3) Includes concepts of energy transformation, metabolism, muscular contrac-

tion, oxygen debt, cardiovascular performance, and respiratory function in relation to physical activity and exercise. *Prerequisite:* 49.200 or 49.195.

49.490 Independent Study Project in Health and Fitness (1-6)

Graduate and Advanced Undergraduate Courses

49.590 Independent Reading Course in Health and Fitness (1-6)

Graduate Courses

49.610 Applied Human Physiology and Testing I (3) Theoretical basis for exercise physiology explored in detail. Emphasis is on changes occurring in body systems as a result of exercise and training. Offered every fall. *Prerequisite:* 09.330, 09.331, 09.332, 09.333, 49.425 or equivalent, and permission of the director of the Health/Fitness Management Program.

49.615 Applied Human Physiology and Testing II (3) Introduction to methods of physical-fitness assessment and evaluation of results. Includes familiarization with treadmill tests, hydrostatic weighing, EKGs, and selected health-status appraisal tools and techniques. Offered every spring. *Prerequisite:* 49.610 and permission of the director of the Health/Fitness Management program.

49.618 Strategic Planning in Health Promotion (3) Provides exposure to the concepts and requirements of planning and developing health promotion programs. On completion of this course students have a working knowledge of the analytical tools and strategies used in the development of successful health promotion programs in both the profit and nonprofit sectors. Usually offered every fall.

49.640 Nutrition for Health Fitness (3) The role of nutrition in maintaining health and physical fitness is studied in relation to the responsibilities and opportunities of the manager of health fitness programs. Current food myths, diets for those in athletic programs, and special needs of overweight and underweight clients are included. Usually offered every spring. *Prerequisite:* permission of the director of the Health/Fitness Management program.

49.690 Independent Study Project in Health and Fitness (1-6)

49.790 Selected Topics in Health Fitness (3) Survey of current literature on the various topics of physical fitness, coronary risk factors, nutrition, smoking, and other topics related to health and fitness. Includes a survey of various organizations that are resources for health information, and field trips to selected health and fitness programs or organizations. Usually offered every fall. *Prerequisite:* degree standing in the Health/Fitness Management program or permission of instructor.

49.791 Research Methodology in Health Fitness (3) Provides students in the Health/Fitness Management program with a comprehensive understanding of the concepts and methodology that are essential for quality research. Usually offered every spring.

49.792 In-Service Training in Health/Fitness Management (3) Internships with Employee Fitness Program, fitness centers, or health and fitness organizations of student's choice. May emphasize managerial, clinical, educational, or promotional aspects of Health/Fitness management. Usually offered every term. *Prerequisite:* degree

standing in the master's program in Health/Fitness Management.

49.797 Master's Thesis Seminar in Health/Fitness Management (3) Usually offered every term.

Audio Technology

Undergraduate Courses

50.201 Fundamentals of Audio Technology /N (3) Anatomy of audio components; generation, transmission, and detection of sound; properties of sound; electricity and magnetism with applications to transducers, preamplifiers, amplifiers, tuners, and tape decks; electromagnetic waves, AM, FM, and PM modulation; and elements of AM and FM tuners. Usually offered every term. *Prerequisite:* permission of instructor.

50.202 Audio Technology Laboratory (1) Experiments to accompany 50.201 are performed weekly on loud-speaker directivity, amplifier frequency response, amplifier power output, tape recorder frequency response, wow and flutter, and distortion measurements. Usually offered every term. *Prerequisite:* 50.201 taken concurrently; audio technology majors or permission of instructor.

50.230 Acoustics (3) Properties of sound, speech and music, reflection and diffraction. Open-air theatres, sound-absorptive materials and special constructions, and principles of room acoustics and design. Noise control, reduction of air-borne and solid-borne noise, control of noise in ventilating systems, sound-amplification systems, and auditoriums. Usually offered every fall. *Prerequisite:* 50.201.

50.310 Sound Synthesis I (3) Principles and practice of analog and digital sound synthesis. Basic tape studio training. Waveform synthesis methods, control storage and event timing, basic patching and effects, microprocessor fundamentals. Emphasis on general familiarity with the technology and lexicon of electronic music, in preparation for 50.320 Sound Synthesis II. Laboratory work in the electronic music studio lab work. *Prerequisite:* 50.201

50.312 Analog Electronics I (3) Electronic fundamentals needed for understanding audio and AC circuits. Voltage, resistance, inductance, capacitance, simple circuit theory, tuned circuits, power supplies. Usually offered every fall. *Prerequisite:* 50.201, 50.219 or 51.221, and 51.223.

50.313 Analog Electronics II (3) Continuation of 50.312. Semiconductor devices, electron tubes, basic amplifiers, operational amplifiers, and oscillators. Usually offered every spring. *Prerequisite:* 50.312.

50.320 Sound Synthesis II (3) Waveform synthesis algorithms, sequencer programming and synchronizing, multitrack composition, complex event design and programming. Emphasis on disciplined approach to integrated, systems-oriented understanding and use of wide range of technologies and techniques including analog, digital, hybrid, and computer-based synthesis and composition. Practice and lab work is included. *Prerequisite:* 50.310.

50.322 Analog Electronics Laboratory I (2) Experiments to accompany 50.312. Experiments will cover DC circuits, resistance, capacitance, inductance, AC circuits, diodes, vacuum tubes, and amplifiers. Usually offered every fall. *Prerequisite:* 50.312, which may be taken concurrently.

50.323 Analog Electronics Laboratory II (2) Experiments to accompany 50.313. Experiments will cover transistor characteristics, transistor amplifiers, emitter followers, integrated circuit operational amplifiers, oscillators, and pulse-shaping circuits. Usually offered every spring. *Prerequisite:* 50.313, which may be taken concurrently.

50.340 Electronic Troubleshooting (3) The system approach to electronic equipment troubleshooting. Students learn how to use electronic test equipment, read block and level diagrams and schematics, and isolate and repair electronic equipment. Usually offered every fall. *Prerequisite:* 50.313 or permission of Audio Technology adviser.

50.384 T.V. Studio Operations (3) Principles and practice in operation of television studio equipment. Television waveforms and system fundamentals, studio camera chain, video and audio signal distribution, and operation of studio equipment. Laboratory. Usually offered every fall. *Prerequisite:* junior standing and permission of instructor.

50.390 Independent Reading Course in Audio Technology (1-6)

50.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

50.410 Sound Studio Techniques and Practice (3) Multitrack recording techniques as applied to professional sound studio systems. Studio consoles, magnetic tape recording, signal-processing equipment, room acoustics, noise reduction systems, multitrack record alignment, and test equipment. Usually offered every fall. *Prerequisite:* 50.313 or permission of instructor.

50.420 Advanced Sound-Studio Techniques (3) Studio set-up, microphone placement, acoustic theory, console patchbay theory and practice, signal processing devices, equalizers, and limiters. Students participate in a recording session in which the set-up and the operation are individually assigned and evaluated. Usually offered every spring. *Prerequisite:* 50.410.

50.490 Independent Study Project in Audio Technology (1-6)

50.491 Internship (1-6)

Graduate and Advanced Undergraduate Courses

50.500 Digital Electronics (4) Binary number systems, transistor fundamentals, transistor switching circuits, diode and TTL logic circuits, Boolean algebra, digital integrated circuits, Karnaugh maps, elements of digital circuit design, A/D and D/A conversion, and applications. Laboratory included. Usually offered every fall. *Prerequisite:* 41.170, 50.313 or 51.221 and 51.223, or permission of instructor.

50.501 Microprocessors (4) Review of hexadecimal number system, binary mathematics, and programming. Microcomputer architecture, the MPU instruction set, addressing modes, the stack, index register, masks, and interrupts. Assembler and machine language. I/O operations, fundamentals, keyboards, peripheral interface adaptors, A/D conversion, and applications. Hands-on microprocessor training. Usually offered every spring. *Prerequisite:* 50.500, and 40.260 or 40.280.

Physics

Undergraduate Courses

51.100 Physics for the Modern World /N 5:1 (3) The laws and rules that govern nature and the physical universe are beautiful yet mysterious. Physics is the science that tries to find these laws by observation, measurement, and testing of hypothesis. The course traces the development of the scientific method and work that forms the basis for studying mechanics, waves, sound, light, and electricity. *Prerequisite:* completion of the College Mathematics requirement.

51.105 College Physics I /N 5:1 (3) General physics from the point of view of its definitions as the study of the properties and interactions of matter and energy using scientific methodology. This first semester of a two-semester sequence covers a full range of topics in classical mechanics and in thermodynamics. Satisfies premedical requirements. Usually offered every fall. *Prerequisite:* 41.170 or equivalent; concurrent enrollment in 51.111. *Note:* not open to students who have taken 51.218 College Physics I.

51.110 University Physics I /N 5:1 (3) General physics from the point of view of its definition as the study of the properties and interactions of matter and energy using scientific methodology. This first semester of a two-semester sequence covers a full range of topics in classical mechanics and in thermodynamics. For students who need to use calculus-based mathematical methods in solving physical problems. Usually offered every fall. *Prerequisite:* 41.221 or concurrent registration; concurrent registration in 51.111. *Note:* not open to students who have taken 51.220 University Physics.

51.111 General Physics Laboratory I /N 5:1 (1) Experiments in mechanics, heat, and sound to accompany 51.105 or 51.110. Usually offered every fall and summer. *Prerequisite:* concurrent registration in 51.105 or 51.110. *Note:* Not open to students who have taken 51.222 General Physics Laboratory.

51.200 How the Universe Works /N 5:2 (3) The revolutionary ideas which distinguish twentieth-century physics from classical physics, building on the foundation given by prerequisite courses. How these ideas influence other fields of intellectual activity. Special and general relativity, quantum physics, theory of chaos, cosmology, atoms, nuclei, quarks. Usually offered every term. *Prerequisite:* completion of College Mathematics requirement and, if taken for General Education credit, 51.105 and 51.111, or 51.100, or 51.110 and 51.111, or 15.110 and 15.111, or 15.100.

51.205 College Physics II /N 5:1 (3) Second semester of general physics, following 51.105. Material covered includes the standard topics in electricity and magnetism (fields, potentials, DC and AC circuits, electromagnetic waves), geometrical and physical optics, and an introduction to quantum physics. Satisfies premedical requirements. Usually offered every spring. *Prerequisite:* 51.105 and 51.111; concurrent registration in 51.211. *Note:* not open to students who have taken 51.219 College Physics II.

51.210 University Physics II /N 5:2 (3) Second semester of general physics, following 51.110. Material covered includes the standard topics in electricity and magnetism (fields, potentials, DC and AC circuits, electromagnetic waves), geometrical and physical optics, and an introduc-

tion to quantum physics. For students who want to use calculus-based mathematical methods in solving physical problems. Usually offered every spring. *Prerequisite* for General Education credit: 41.221, 51.110, and 51.111; concurrent registration in 51.211. *Note:* not open to students who have taken 51.221 University Physics II.

51.211 General Physics Laboratory II /N 5:2 (1) Experiments in electricity, magnetism, light, and optics to accompany 51.205 or 51.210. Usually offered every spring and summer. *Prerequisite:* concurrent registration in 51.205 or 51.210. *Note:* not open to students who have taken 51.223 General Physics Laboratory II.

51.220 Astronomy /N 5:2 (3) Theories of the formation of the universe, its structure and evolution over time. Stars, planets, and galaxies are born and change over the years; supernovas, neutron stars, pulsars, black holes, quasars, solar systems are formed. Methods of investigation and exploration of the universe. Usually offered every term. *Prerequisite:* completion of college mathematics requirement and, if taken for General Education credit, 51.100, or 51.110 and 51.111, or 51.110 and 51.111, or 15.100, or 15.110 and 15.111. *Note:* not open to students who have taken 51.106 Astronomy.

51.390 Independent Reading Course in Physics (1-6)

51.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

51.452 Advanced Laboratory (3) Lectures and laboratory. Students plan and complete experiments in electronics and other laboratory techniques that fit their background and previous training. May be repeated for credit but not in the same term; topic may be the same. Usually offered every spring. *Prerequisite:* 50.313 or equivalent and 40.260 or 40.280.

51.490 Independent Study Project in Physics (1-6)

51.501 Modern Physics (3) Electrons, protons, and structure of matter: an historic view. The Rutherford-Bohr atom and elements of quantum mechanics and their applications to atomic, nuclear, and solid state physics. Usually offered every spring. *Prerequisite:* 51.210, 41.222 or 41.212, or permission of instructor.

51.502 Classical Mechanics (3) Vector analysis. Newton's laws and dynamics of particles. Harmonic oscillator. Conservative systems. Gravitational forces and potential. Central fields and the motions of planets and satellites. Relativity. Elements of mathematical physics. Usually offered every fall. *Prerequisite:* 51.501, 51.211, and 41.321 or concurrent registration or permission of instructor.

51.503 Electricity and Magnetism (3) Electrostatics, potential theory, magnetic fields, Faraday and Ampere's laws, dielectric magnetic media, and Maxwell's equations. Usually offered every spring. *Prerequisite:* 51.501, 41.223, and 41.321, or permission of instructor.

Graduate and Advanced Undergraduate Courses

51.530 Mechanics (3) Newtonian dynamics; Hamilton's principle and Lagrange's equations; central force motion; rigid body dynamics; oscillating motion; Hamilton's equations and phase space; Hamilton-Jacobi equation. Usually offered every fall. *Prerequisite:* 51.502.

51.551 Electromagnetic Waves and Optics (3) Maxwell's equations and electromagnetic waves, reflection

and refraction, interaction of light with matter, interference phenomena, and Huygen-Kirchoff diffraction theory. Fresnel and Fraunhofer diffraction, grating, and optical instruments. *Prerequisite:* 51.503.

51.565 Basic Concepts in Statistical Physics (3) Statistical description of matter. Distribution functions, phase space, ensembles, statistical interpretation of thermodynamics, effects of quantization, and Maxwell-Boltzman, Fermi-Dirac, and Bose-Einstein statistics. Usually offered alternate springs. *Prerequisite:* 51.503.

51.570 Introduction to Quantum Mechanics (3) Wave mechanics, Schrodinger equation, potential barriers and potential wells, harmonic oscillator, operators, eigenfunctions, eigenvalues, degeneracies, angular momentum, hydrogen atom. Usually offered every fall. *Prerequisite:* 51.501.

51.571 Special Topics in Applied Quantum Mechanics (3) Special topics in Applied Quantum Mechanics: atomic and molecular, solid state nuclear and particle physics. Perturbation theory, magnetic moments, multi-electron atoms, transition rates and selection rules, collision theory. Crystallography, electrical and magnetic properties of solids. Physics of nuclei and nucleons and their interactions, systematics of stable nuclei, radioactivity, and the fundamental interactions. May be repeated for credit; topic must be different. Usually offered every spring. *Prerequisite:* 51.570.

51.590 Independent Reading Course in Physics (1-6)

Graduate Courses

51.600 Quantum Electronics I (3) Basic theory concerning the interaction of atomic systems with electromagnetic radiation. Includes review of basic quantum principles; matrix theory of quantum mechanics; review of classical radiating dipole, radiation damping and atomic lifetimes; quantization of radiation; modern interpretation of Einstein A and B coefficients. Offered alternate falls. *Prerequisite:* 51.570.

51.601 Quantum Electronics II (3) Optical resonators and laser cavities; three and four level laser models; rate equations pulsed and CW lasers; Real laser systems; nonlinear optics and second harmonic generation; Index matching coherent optics. Offered alternate springs. *Prerequisite:* 51.600.

51.630 Mechanics I (3) Newton's laws of motion. Variational principles and Lagrange's equations. The two-body central force problem. Scattering in a central force field. Kinematics of rigid body motion. The rigid body equations of motion. Methods of solving rigid body problems. Usually offered alternate falls. *Prerequisite:* 51.530.

51.631 Mechanics II (3) Small oscillations. Hamilton equations of motion. Canonical transformations: integral invariants, symmetry principles, and infinitesimal transformations. Liouville's theorem. Hamilton-Jacobi theory and wave mechanics. Lagrange and Hamilton formulations for continuous systems. Usually offered alternate springs. *Prerequisite:* 51.630.

51.650 Electromagnetic Theory I (3) Electrostatics: experimental laws, Gauss's and Green's theorems, and Poisson and Laplace equations. Magnetostatics: Law of Biot and Savart, Ampere's Law, and vector potential. Time-varying fields: Faraday's law, Maxwell's equation, and Poynting's theorem. Radiating systems: Lienard-Wiechert

potentials, multipole fields, and wave scattering. Usually offered alternate falls. *Prerequisite:* 51.551.

51.651 Electromagnetic Theory II (3) Einstein's two postulates; Lorentz transformations; Thomas precession; invariance of electric charge and covariance of electrodynamic; relativistic Hamiltonians and Lagrangians; Darwin and Proca Lagrangians; conservation laws and motion in uniform fields; and scattering and absorption of radiation by a bound system. Usually offered alternate springs. *Prerequisite:* 51.650.

51.670 Quantum Mechanics I (3) Experimental background to quantum mechanics. Schrodinger equation, eigenfunctions and eigenvalues, one-dimensional problems, WKB approximations, general principles of wave mechanics, central potentials, hydrogen atom, and scattering. Usually offered every fall. *Prerequisite:* 51.572 or concurrent registration.

51.671 Quantum Mechanics II (3) General formalism of quantum theory; angular momentum and spin; identical particles and stationary perturbations; time-dependent perturbation theory, and variational method. Usually offered every spring. *Prerequisite:* 51.670.

51.690 Independent Study Project in Physics (1-6)

51.691 Internship (1-6)

51.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

51.780 Research Seminar in Physics (3-6) Various topics in advanced physics with contents selected according to need. May be repeated for credit either in the same term with a different topic or not in the same term with the same topic. *Prerequisite:* permission of instructor.

51.795 Research Training Seminar (1-6)

51.797 Master's Thesis Seminar (1-6)

51.799 Doctoral Dissertation Seminar (1-6)

Government

Undergraduate Courses

53.105 Individual Freedom vs. Authority /A 2:1 (3) The study of major philosophical discussions of the conflict between individual freedom and authority with analysis of the relation between this conflict and the problem of organizing a government. Usually offered every term. *Note:* not open to students who have taken 53.200 Great Issues of Political Thought.

53.110 The Individual and the Polity /S 4:1 (3-4) This course combines a study of major philosophical concepts that shaped government in the United States with an analysis of contemporary political institutions and behavior, focusing on the American governmental system. The course introduces students to theories of governance as well as to a specific governmental system. Four-credit sections include Washington laboratory experiences. Usually offered every term. *Note:* not open to students who have taken 53.120 Introduction to American Politics or 53.100 Introduction to Political Science.

53.120 Introduction to American Politics /S (3-4) Pluralism, constitutional bases of government, political participation and elections, and the major national institutions involved in policy making. Fall semester in-

cludes field trips to acquaint students with the policy process in Washington. Usually offered every term.

53.130 Comparative Politics /S 3:1 (3) How different societies, both Western and non-Western, have approached the political problems of order and responsiveness. The relationships, in a cross-cultural perspective, between the individual and the state; social and economic processes; culture and behavior. Usually offered every term. *Note:* not open to students who have taken 53.230 Comparative Politics: Change, Leadership, Participation.

53.205 Conscience and Authority /S 4:2 (3) The dilemma posed by the conflict between conscience and authority that adheres at every level of society (the family, the classroom, the work place, the civic group, as well as governmental agencies and the military) is examined from a social-science perspective. Usually offered every spring. *Prerequisite for General Education credit:* 54.105 or 57.105. *Note:* not open to students who have taken 53.320 Political Behavior.

53.210 Political Power and American Public Policy /S 4:2 Introduction to political power and how the domestic policy process works; how to evaluate American domestic policy; and the content of several major domestic policies such as energy, environment, health, education, welfare, economic stability, labor, and justice and social order. Usually offered every term. *Prerequisite for General Education credit:* 19.100 or 53.110. *Note:* not open to students who have taken 53.323 Government and Public Policy.

53.215 Civil Rights and Liberties /S 4:2 (3) The legal, political, and philosophical status of rights and liberties protected under the Constitution and laws of the United States; how political processes affect the definition of rights. Usually offered every term. *Prerequisite for General Education credit:* 53.110 or 73.100, or 54.105. *Note:* not open to students who have taken 53.351 Civil Rights and Liberties.

53.221 Elections and Voting Behavior (3) The role of public opinion, interest groups, social movements, and political parties in plural societies. Problems in political participation, communication, representation, and leadership. Usually offered every term.

53.225 Congress and the Presidency /S 4:2 (3) The roles and responsibilities of Congress and the Presidency in making national policy. The hopes and fears of the framers of the Constitution; continuity and change in relative power; the capacity for cooperation and competition in the government of the United States. Usually offered every term. *Prerequisite for General Education credit:* 53.110 or 19.100. *Note:* not open to students who have taken 53.220 Presidential Politics.

53.231 Third-World Politics /S (3) Political order and change in selected countries in Africa, Latin America, and Asia, emphasizing nation building, ideology, development, and the role of the military.

53.235 Dynamics of Political Change /S 3:2 (3) Theoretical perspectives on political change together with case studies of societies in which the status quo has broken down. Emphasis on the political, cultural, social, and psychological aspects of domestic crisis and revolution, with the objective of increasing awareness and appreciation of other nations and their struggles. Usually offered every spring. *Prerequisite for General Education credit:* 53.130 or 29.120, or 33.110. *Note:* not open to students who have taken 53.431 Revolution and Violence.

53.240 Metropolitan Politics /S (3) The growth of cities and metropolitan areas. Evolution of the city and its surrounding areas as a focus of public policy. Analysis of decision-making techniques, intergovernmental relations, and ethnic politics. Implications of financial resources and suburban attitudes on metropolitan politics and policy making. Usually offered every term.

53.245 Introduction to the Study of Law (3) Course acquaints students with the characteristics and the history of Anglo-American judicial systems. Attention is given to theories of law; the substantive categories of law; and the interaction of law, morality, and politics.

53.300 Modern Political Thought (3) Works of major political theorists from the sixteenth to the twentieth century and their application to current questions of theory and method. Included are Machiavelli, Hobbes, Locke, Montesquieu, Rousseau, Mills, Hegel, Marx, and others. Usually offered every term.

53.301 Classical Political Thought (3) An in-depth approach to theory beginning with the pre-Socratics and extending through the Platonic dialogues, Aristotle, Roman civil theory, and major medieval trends of thought. Usually offered every fall.

53.302 American Political Thought (3) Concepts and theories on the nature and operation of American politics and government. Usually offered every spring.

53.310 Introduction to Political Research (3) An introduction to political science research, including the logic of analysis, research design, and the basics of quantitative analysis. Application of gathering data and of analytic and statistical techniques to contemporary political problems. Usually offered every term. *Prerequisite:* one course in political science.

53.321 Congress and Legislative Behavior (3) Congressional behavior, Congress as an institution, and the role of Congress in policy making. Field research on Capitol Hill. Usually offered every term. *Prerequisite:* 53.120.

53.322 American Political Parties (3) Party organization, the party in the electorate and government, party reform, and the future of American parties. Research on parties in Washington. Usually offered every term. *Prerequisite:* 53.120 or 53.221.

53.330 Politics of Industrial Societies (3) Comparative study of participation, public policy, and policy making in industrial societies. The effects of technology and science on values and social change. Usually offered every fall.

53.331 Interdependence, Scarcity, and Power (3) Political and administrative issues raised by the growing interdependence of nations confronting global scarcities of essential commodities. The politics of scarcity. Usually offered every spring. *Prerequisite:* one course in economics and one in international relations or comparative politics.

53.350 American Constitutional Development (3) The nature of constitutionalism and the role of constitutional interpretation; judicial power and review. Supreme Court decisions and their effect on the development of the American political system. Usually offered every term. *Prerequisite:* 53.120 or 53.250 or 53.302.

53.352 Law and the Political System /S (3) Basic concepts of law and the American legal system. Analysis of the role of courts in the policy-making process. Problems of law enforcement and the correctional system. Usually offered every term.

53.390 Independent Reading Course in Government (1-6)

53.391 Internship (1-6) Specially arranged with the director of undergraduate academic counseling in interest groups, congressional offices, and government agencies. Weekly seminar. Usually offered every term. May be repeated for credit within the same term; topic must be different. *Prerequisite:* second-semester sophomore standing.

53.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

53.401 Communism, Fascism, and Democracy (3) The background and major issues of twentieth-century political thought; the concept, nature, and functions of ideology; and major contemporary doctrines. Usually offered every fall. *Prerequisite:* a course in history of ideas, philosophy, or theory recommended.

53.410 Washington Semester in American Government and Politics Seminar I (4) Selected students from the university and cooperating institutions study the U.S. government in action through seminars, conferences, lectures, and guided seminar evaluations of experience. The research project is an individual report prepared under the guidance of the academic directors of the program. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 56.411 and 56.412.

53.411 Washington Semester in American Government and Politics Seminar II (4) See 56.410. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 56.410 and 56.412.

53.412 Washington Semester in American Government and Politics Research Project (4) See 53.410. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 53.410 and 56.411.

53.413 Washington Semester Research Project (4) Independent research project prepared under the guidance of the Washington Semester faculty. May be repeated for credit but not within the same term; content must be different. Usually offered every term. *Prerequisite:* open to Washington Semester students only.

53.416 Washington Semester in American Government and Politics Internship (4) Open only to students in the Washington Semester program, as arranged with their academic directors.

53.420 The Politics of Social Change (3) An analysis of the prospects for social change in postindustrial America, including local communities. The strategies and tactics adopted by agents of change such as the civil rights and women's movements, organized labor, environmentalists, and grassroots citizens movements. Opportunities for field study. Usually offered every fall. *Prerequisite:* 53.110, 53.120 or permission of instructor.

53.423 Advanced Studies in Public Policy (3) Seminars on such topics as hunger, poverty, housing, education, job training, health care, unemployment, welfare, and conservation. May be repeated for credit within the same term; topic must be different. *Prerequisite:* 53.323.

53.430 Authoritarian Regimes: Generals, Presidents, and Kings (3) Politics, theory, and practice of modern totalitarian and authoritarian systems. Communism, fascism, nazism, corporatism, and praetorianism. Usually

offered every fall. *Prerequisite:* a course in comparative politics or a relevant history course.

53.434 London Semester (4) Seminar meetings with British public officials and observers of British politics. Topics in British culture include art and architecture of London taught by British instructors and national and urban British politics. Students enroll in several sections of this course. Usually offered every fall.

53.435 London Semester Internship (4) Students work up to twenty hours a week in British institutions under faculty supervision. Usually offered every term.

53.436 Topics in British Culture and Society (4) The ways British society has developed, including similarities and differences with American society. Different topics are introduced each year. Currently, the focus is on London theatre and British media. Usually offered every term.

53.438 Italian Political Thought since World War II (3) A study of major Italian political institutions, political movements, and leaders. The course consists of classroom lectures and on-site seminars led by current Italian political leaders. Usually offered every term.

53.440 Urban Affairs Seminar (3) Field research, class presentations, and readings on contemporary urban problems. Decentralization, citizen participation, urban bureaucracy, and service-delivery systems. Usually offered every fall.

53.442 Field Study in State Government (3) A study of policy making in states, focusing on the governors and legislatures. Trips to nearby state capitals. Usually offered every fall. *Prerequisite:* 53.110 or 53.120 or 53.240.

53.461 Politics in the Television Age (3) The relationship between television and American politics. Topics include the concept of news; the changing role of television; the politics of newsmaking; the election campaign and the emergence of the political consultant; "tele-diplomacy"; and research tools for analyzing television news. Usually offered every term. *Prerequisite:* An introductory course in American politics.

53.462 Politics of Popular Culture (3) A critical examination of the ways in which language is used to constitute values and the meaning by which power becomes effective in areas such as popular music, television, film, graffiti, comic books, etc. Usually offered every term. *Prerequisite:* An introductory course in American politics.

53.463 Politics and the Cinema (3) Through analysis of the images and symbols inherent in contemporary motion pictures, students are able to consider not only the developed political ideologies, but also the psychological dimensions of political action and inaction. Usually offered every spring. *Prerequisite:* an introductory course in American Politics.

53.464 Political Rhetoric (3) Explores the nature of political rhetoric and its history, possibilities, and limitations as well as why and how it is used in the political process and with what effect. Students learn about the skills and resources necessary to produce effective political rhetoric and the mechanics of political argumentation. Usually offered every term. *Prerequisite:* An introductory course in American politics.

53.489 CLEG Seminar (3) Selected topical issues cutting across the disciplines of communication, law, economics, and political science. Primarily for students majoring in the interdisciplinary major in CLEG (Communication,

Legal Institutions, Economics, and Government). Examples of issues are communication law and regulation, First Amendment rights and the media, United States trade policy. Usually offered every spring. May be repeated for credit, but not within the same term; topic must be different.

53.490 Independent Study Project in Government (1-6)

53.491 Undergraduate Internship (6) Specially arranged with the director of undergraduate academic counseling in interest groups, congressional offices, and government agencies. Weekly seminar. Usually offered every term.

53.492 Seminar for Teaching Assistants (3-4) Exclusively for those who serve as teaching assistants in the Washington Laboratory, this course focuses on curriculum planning, group dynamics in classroom and field-trip settings, role differentiation, and evaluation of student performance. In addition, it is intended to enhance leadership and communication skills. Usually offered every fall. *Prerequisite:* permission of instructor.

53.493 British Parliamentary Studies (3) An in-depth examination of selected aspects of the functions and workings of the British Parliament. Topics include the responsibilities of ministers in Parliament, select committees, the role of opposition, parliamentary procedures, and the impact of political parties on the behavior of Members of Parliament. May be repeated for credit in the same term; topic must be different. *Prerequisite:* for students in London participating in the American University Leeds Parliamentary/Congressional Internship.

53.499 Honors Research in Political Science (3)

Graduate and Advanced Undergraduate Courses

53.500 Marxian Social and Political Thought (3) Marx's contribution to social and political science, economics, and revolutionary theory. Primary texts.

53.501 Contemporary Social Theory (3) A political science perspective on contemporary work in psychology, economics, sociology, and other social sciences. Usually offered every spring.

53.502 Politics of the Middle East (3) Politics of the modern Middle East. Deals with legitimacy in crisis in Arab politics, the rise of Jewish nationalism and politics of Israel, the Arab-Israeli conflict, and international rivalry over the Middle East. Usually offered every fall.

53.510 Survey Research Methods (3) Training and experience in question wording, sampling, interviewing, coding, keypunching, and computer analysis. A telephone survey is conducted during the semester. Usually offered every spring.

53.520 Advanced Studies in Campaign Management (1-4) Institute and advanced workshops conducted by campaign professionals. The Campaign Management Institute is a two-week intensive course (four credit hours) offered in January and May on major aspects of political campaigning. Student teams present a simulated campaign plan to a professional panel. Advanced workshops (one semester hour) are offered both fall and spring in areas such as campaign media production and strategy, campaign fundraising, get-out-the-vote, and election analysis. Usually offered every term. May be repeated for credit in the same term; topic must be different. *Prerequisite:* 53.120.

53.521 Advanced Studies in Elections (3) Seminars on such issues as campaign management, campaign finance, and elections and voting behavior. May be repeated for credit in the same term; topic must be different. *Prerequisite:* major in the department of government or public administration or graduate standing.

53.522 Studies in Political Behavior (3) Examples are personality and politics, and political socialization. *Prerequisite:* six hours of relevant course work in political science or a related discipline.

53.524 Congressional Studies (3) Examples are Congress in transition, information sources on the Hill, congressional-executive relations, legislative research skills, and legislative rules and procedures. May be repeated for credit in the same term; topic must be different.

53.525 Congress and the Executive (3) Relations between the Congress and the executive branch (president and bureaucracy) with respect to congressional oversight, legislative support of presidential programs, institutional liaison arrangements between Congress and the executive, and reforms in Congress bearing on the changing relationship between the two branches. Usually offered every spring.

53.526 U.S. Intelligence Community (3) This course examines the agencies which make up the intelligence community and activities in which those agencies engage: collection of intelligence, counterintelligence, covert action, and analysis. The sources of conflict between members, direction and management of the community, secrecy and public control, and proposals for reform are also covered. Guest participants from research institutes and government; independent authors. Usually offered every spring.

53.530 Comparative Political Theory (3) A study of political theory in Asia, Latin America, Arab Cultures, communist nations, and in Africa; emphasis on comparative analysis. Usually offered every spring. *Prerequisite:* a course in political theory or comparative politics.

53.533 Community Change in the Third World (3) Issues of community autonomy, national authority, and community decision making. Case studies of selected communities in Third-World nations and the role of international agencies in community change. Usually offered every spring. *Prerequisite:* a course in comparative politics or international relations.

53.534 Soviet Union and Nuclear War (3) This course focuses on Soviet perceptions of the U.S. threat and Soviet strategic capabilities and nuclear war strategy. Specific topics include U.S. strategy and force levels, Soviet weapons-acquisitions decision making, strategic forces, C3, civil defense, and nuclear targeting policy. Detailed scenarios concerning how Soviets might choose to fight a nuclear war are examined. Usually offered alternate falls.

53.540 Political Parties, Interest Groups, and Lobbying (3) The roles, functions, and changing nature of political parties and interest groups in American politics, the impact of political party reforms on the parties, and the ways in which parties and interest groups shape public policy. Usually offered every spring.

53.550 The Cuban Revolution (3) An examination of the social, economic, and political roots of the Cuban revolution of 1959 and the changes brought about in Cuban politics and society as a result of the revolution. Usually offered every fall.

53.560 Intergovernmental Relations (3) The political, fiscal, and administrative relationships which help to shape the complex intergovernmental system. Federal, state, and local and other jurisdictions are examined concerning their effect on intergovernmental systems. *Prerequisite:* 53.120 for undergraduates.

53.561 Urban Planning (3) The tools and practice of urban planning and its role in shaping the urban environment. Topics include long-range, comprehensive planning; neighborhood adaptations; new towns; planning for rural development and economically depressed regions; and planning for housing, transportation, and community facility programs. Usually offered every spring. *Prerequisite:* 53.120 or 53.240 for undergraduates.

53.565 How Much Government Do We Really Want? (3) The impact of federal regulation and deregulation on American life; the complex interactions between the public and private sectors; corporate and consumer lobbying; the effects of trade laws; and antitrust policy. Usually offered every summer.

53.570 British Politics (3) The British political system from 1945 to the present. British political parties; Parliament; the civil service; problems of class and race, foreign policy, and industrial relations. Usually offered every spring. *Prerequisite:* undergraduate students, an undergraduate course in comparative politics; graduate students, 53.630.

53.590 Independent Reading Course in Government and Political Science (1-6)

Graduate Courses

53.600 Modern Political Theory (3) Political science as systematic inquiry. Works of political theorists from Machiavelli to the twentieth century; applications to current questions of theory and method. Usually offered every term.

53.602 American Political Thought (3) Historical and conceptual analysis of the major political thinkers and ideas from the Puritans to the present, with emphasis on their influence on the institutional development of the American political system. Usually offered every term.

53.610 Introduction to Quantitative Methods in Political Science (3) Application of techniques of bivariate analysis to measurement of political behavior; emphasis on techniques relevant for political scientists and students of public administration. Usually offered every term.

53.611 Political Research (3) Analysis and investigation of political and social problems. Emphasis on theory construction as a guide to research formulation, methods of research, and empirical testing of research questions. Usually offered every spring. *Prerequisite:* 53.650.

53.612 Conduct of Inquiry I (3) Concepts, approaches, and methodologies of research in political science and public administration; probability, sampling; quantitative data analysis, including hypothesis testing and estimation; qualitative data analysis and measures of association. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program or permission.

53.613 Conduct of Inquiry II (3) Continuation of 53.612; the use of bivariate and multivariate analysis in political and administrative research; analysis of organizational decision models. Usually offered every spring. *Prerequisite:* admission to Ph.D. program or permission.

53.614 Research in Political and Administrative Behavior (3) The use of survey research and case studies for the study of political and administrative behavior. Instruction in the use of the computer as an aid in political and administrative research. Usually offered alternate falls. *Prerequisite:* admission to Ph.D. program or permission.

53.630 Comparative Politics of Developed Nations (3) An introduction to the study of comparative politics, including methods of analysis and conceptual frameworks relevant to an understanding of the structures and processes of political systems in developed nations. Usually offered every fall.

53.631 Comparative Politics of Developing Nations (3) An introduction to the comparative study of governments and political change in the Third World. Topics include development and underdevelopment, cultural pluralism, political integration, nationalism and other ideologies, and the role of the military. Case studies are included. Usually offered every spring.

53.637 Comparative Politics: Countries (3) Special topics dealing with the Soviet Union, Western Europe, the Middle East, Africa, Communist China, Japan, and others.

53.650 Political Analysis (3) Methods of scientific analysis, including research formulation, hypothesis generation and testing, quantitative analysis, and computer techniques. Usually offered every fall.

53.651 The Legislative Process (3) The function of the legislative branch in the American system. Emphasis on Congress and comparison with state legislatures. Usually offered every spring.

53.652 The Presidency and the Executive Branch (3) Analysis of presidential roles and of the function of the federal executive branch. Presidential personality, executive-legislative relations, and policy formation.

53.654 Political Behavior (3) An examination of the determinants of voting behavior, such as personality, beliefs and attitudes (including issue opinions and conceptual sophistication), political socialization, small groups and communication. Some attention to institutional and normative considerations. Uses survey research and case studies. Usually offered every fall.

53.656 Voting Behavior, Elections, and Campaigns (3) Political participation and behavior in U.S. primaries and elections, management of campaigns, mass media, and political organizations.

53.674 Constitutional Law and Politics (3) Involvement of American courts in such issues as legitimacy, conflict resolution, and representation; courts as political actors with respect to federalism; powers and limitations of government; advancement of individual and group interests and rights.

53.682 Foundations of Policy Analysis: Metropolitan and National (3) Distributional effects, externalities, and the role of risk and uncertainty in policy analysis. Criteria for choice, normative roles for analysis, and using information and social welfare criteria in making policy decisions. Usually offered every term.

53.690 Independent Study Project in Government and Political Science (1-6)

53.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

53.710 Seminar in American Politics (3) Analysis of the operation of the Presidency and the legislative branch and the impact of interest groups and parties on public policy. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. Usually offered every term. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* admission to Ph.D. program or permission.

53.720 Seminar in Policy Analysis (3) Analysis of policy formation and implementation; different theories on the role of government in society; the science of program evaluation. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. Usually offered every term. May be repeated for credit but not within the same term; topic must be different. *Prerequisite:* admission to the Ph.D. program or permission of instructor.

53.799 Doctoral Dissertation Seminar in Political Science (1-12) May be repeated for credit; topic must be different.

Public Administration

Undergraduate Courses

54.105 Individuals and Organizations /S 4:1 (3) The impact of organizations on persons who work within or deal with them. Includes theories and structured in-class experiences focusing on human motivation, group dynamics, communication, roles, norms, and decision making. Secondary emphasis on organization structure, relationships of organizations to their environments, and the subunits within organizations. Usually offered every term.

54.241 Bureaucracy in the Modern World (3) An examination of nineteenth- and twentieth-century perspectives on the growth and functions of large-scale formal organizations. The course provides a basic understanding of how and why bureaucratic institutions have become almost pervasive in modern societies. Usually offered every fall. *Prerequisite:* 53.120.

54.260 Administrative Politics /S (3) An introduction to American public administration and the executive branch of government. Emphasis on the politics of administration and on the relationship of the bureaucracy with clientele groups, Congress, the White House, and the public. Usually offered every term.

54.343 Governmental Management (3) An introduction to the theory and practice of managing governmental agencies at the national level. Concentrates on administrative structures and processes. Examines the development of the federal bureaucracy and the potential for change in future directions on administration, hiring, and programs. Usually offered every fall. *Prerequisite:* 53.120.

54.344 Managing State and Local Governments (3) A survey of the theory and practice of managing state and local governments. Includes a review of the background against which structure and administrative changes have been introduced into managing local self-governing jurisdictions. Usually offered every spring. *Prerequisite:* 53.120.

54.345 The Law of Public Administration (3) This is a survey course intended to familiarize the student with the legal concepts and practices that have defined and continue to shape governmental administration. It begins with a perspective on the rule of law in American society and

the impact of law on the individual. Usually offered every spring. *Prerequisite:* 53.120.

54.444 Governmental Budgeting (3) An introduction to the financial and economic issues and problems that emerge in administering, budgeting, and financial management. Intended as a basic familiarization. Usually offered every spring. *Prerequisite:* 53.120.

54.445 Leadership in the Public Sector (3) A survey of the various approaches to managing people in large, complex organizations. Survey includes interviews and meetings with public managers. Individual student's potential leadership style examined through group experiences, relevant theory, and individual learning instruments. Usually offered every fall. *Prerequisite:* 53.120.

Graduate and Advanced Undergraduate Courses

54.590 Independent Reading Course in Public Administration (1-6)

Graduate Courses

54.601 Methods of Problem Solving I (3) The use of analytical techniques to solve problems in policy analysis and public administration. Defining problems, choosing appropriate techniques, and understanding the limits of quantitative approaches. Usually offered every term.

54.602 Methods of Problem Solving II (3) Continuation of 54.601. Students improve their ability to analyze and solve public problems using analytical techniques. Usually offered every term. *Prerequisite:* 54.601.

54.604 Public Program Evaluation (3) Introduction to the elements of policy and program analysis for public program managers. Normative criteria for program evaluation; systematic strategies for assessing and measuring the effects of program elements and policy changes; and logic and limitations. Usually offered every spring and alternate summers.

54.608 Comparative Administrative Systems (3) An examination of governmental administrative systems in Europe, North and South America, Asia, and Africa. The focus is on these institutions as subsystems of national and international economic and political systems. The emphasis is on the comparative analysis of administration in capitalist industrialized nations, the socialist nations, and the Third World. Usually offered every spring.

54.609 Studies in Policy Analysis: Governmental Structures (3) Theories and techniques of policy analysis as applied to issues of governmental administration structure and process, including issues such as size, centralization and decentralization, professionalization and its effects, and reorganization. Usually offered every fall. *Prerequisite:* 54.601 or 53.682.

54.610 Public Management (3) Problems of management in public agencies; the activities of public managers; the different kinds of government agencies, their settings and tasks; the administrative methods used by public managers; and the applicability of these methods under various conditions. Usually offered every term.

54.611 Organization Planning and Control (3) An introduction to planning theory. Efforts at governmental planning in the United States, techniques used to develop and implement organization planning and control systems, and individual and group resistance to planning and the implications of this for public administration. Usually offered every year. *Prerequisite:* 54.610 or equivalent.

54.612 Politics of Administration (3) The external activities of public agencies; their relations with other agencies, legislative bodies, interest groups, citizens, advisory committees, and other levels of government. Administrative ethics and the mechanisms for holding public administrators accountable, e.g., legislative oversight, sunshine and sunset laws, reorganization, and the press. Usually offered every year.

54.613 Administration of International Programs (3) Organizational and administrative problems of program management in an interdependent world. The administration of government programs in developing countries and the management of international organizations. The effects of development programs and the consequences of alternative management strategies. Usually offered every fall.

54.614 Development Management (3) The problems of administering public programs in developing countries and the methods by which development projects are carried out. For foreign students who will be returning to developing countries as well as for Americans interested in international administration. Usually offered every spring.

54.616 Legal Issues in Public Administration (3) An introduction to legal issues facing public managers. After an introduction to the legal basis of public administration, including the empowerment process, administrative procedures, and judicial review, students focus on legal issues in client relations, administrative ethics, personnel management, and general administration. Usually offered every term.

54.618 Management Workshop (3) Professional training in management skills such as briefing skills, group and personal interaction, and computer applications. Along with other designated workshops, laboratories, and institutes, the course satisfies the management-skills requirement in the M.P.A. program. May be repeated for credit in the same term; topic must be different. Usually offered every term.

54.619 Personnel Administration and Ethics in Government (3) On managerial discretion, particularly at the federal level, with regard to the personnel management areas of position management, staffing, labor-management relations, performance appraisal, training, recognition, and discipline; and ethics and values, including consideration of conflict of interest, ends and means, deception and various degrees of untruth. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.620 Seminar on Career Development (2) This, the first course in the Key Executive Program, focuses on executive development through the process of career and life planning. Participants examine their values, interests, and past accomplishments and prepare their own career-development plans for the future. Participants also explore career development as an element of personnel management, examining employee participation and motivation, the stages of life and career development, and the management of transitions. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.621 Executive Management (3) Based on the profession of public administration and relevant contributions from the business world, this course provides instruction in the principles of managing programs, projects, and other large-scale organizational activities. Classical and

modern approaches to executive management are analyzed in areas including planning, organizing, staffing, program implementation, evaluation, and control. The different characteristics of government organizations are emphasized, along with the constraints that these create for public executives and the ways in which they can respond. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.622 Leadership for Key Executives (3) Focusing on the leadership skills of each member of the class, this course is designed to sharpen the capabilities of key executives to lead and manage other personnel. Key executives examine their own managerial style, methods of communication, techniques of motivation, delegation of work, and approaches to group leadership. Class exercises are used to illustrate research findings from the behavioral sciences. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.623 Executive Problem Solving (3) In this course key executives study the methods for gathering and analyzing information in ways that lead toward more effective and accurate decisions. Specific techniques for analyzing public policies and evaluating agency performance are examined. During this course each key executive develops a prospectus for analyzing a program or activity within his or her own agency. Usually offered every summer. *Prerequisite:* open only to participants in the Key Executive Program.

54.624 Budgeting and Financial Management (3) The use of the executive budget as a device for management planning and control is the focus of this course on public financial management. Key executives develop their skills in understanding different budgetary systems, the elements of budget review and execution, various strategies and tactics employed by participants in the budgetary process. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.625 Analysis and Evaluation Practicum (3) Key executives apply the principles taught in the program to administrative policy issues within their own agencies. Under the guidance of individual faculty advisers, participants conduct their own research, develop a written analysis of their findings, and participate in an oral defense of the methodology, conclusions, and implications of their projects. May be repeated for credit, but not within the same term. Usually offered every term. *Prerequisite:* open only to participants in the Key Executive Program.

54.626 Legal Issues in Public Administration (3) This course deals with the legal basis of government authority and the way in which legal processes authorize yet limit executive action. Using statute and case law, key executives study the delegation of legislative power, rule-making, administrative appeals, and judicial review. Attention is focused on the legal issues in which key executives are most likely to become involved. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.627 Politics, Policy-Making, and Public Administration (3) Key executives examine the relationship of the legislative process, congressional oversight, and EOP/OMB review and approval to the administration of government policy. They study response to pressure groups, clientele groups, and the general public. Executives also address their relationship to political executives, the political basis of government organization, and the difficulties of interagency coordination. Usually offered

every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.628 Executive Skill Modules (2) Participation in this program sequence is designed to improve the practical skills that top-level executives use on their jobs. Among the modules available to participants are computer literacy for executives, executive speaking, effective writing, and executive health and fitness. Usually offered every summer. *Prerequisite:* open only to participants in the Key Executive Program.

54.629 Symposium on Executive Management (2) This course focuses on the integration of the public executive role with the work of the organization from the macro, or institutional, perspective. As the capstone course, it focuses on the perspectives of executive management effectiveness that emerge from the four Key Executive Program study tracks. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.630 Public Managerial Economics (3) Microeconomic theory as a framework for understanding the problems of public managers. Resource scarcity, consumer behavior, production, cost, economics of efficient management, operation of product markets under competition and monopoly, labor markets, market failure, and public goods. Usually offered every term.

54.631 Financing Government Services (3) The theory and practice of public finance and revenue administration with emphasis on state and local government. Applied tax administration and managing other revenue sources; cash management and investing government funds, risk management, debt management including general obligation revenue bonds, user charges and intergovernmental grants. Usually offered every term. *Prerequisite:* 54.630 or equivalent.

54.632 Governmental Budgeting (3) Why budgeting exists, how it works, and who the main actors are. Decision-making theories; resource allocation strategies; program evaluation methods; quantitative aids; legislative and intergovernmental relations; organization and personnel needs; and economic ramifications of alternative fiscal and spending priorities. Usually offered every term.

54.633 Public Financial Management (3) An introduction to the fundamentals of financial management in government agencies, including the background necessary to understand basic concepts of government accounting, auditing, the budget cycle, budget execution, fund management, and financial statements. Usually offered every term.

54.636 Public Financial Analysis (3) How to analyze the financial health of state and local governments and other public organizations and develop remedies for financial problems. Financial condition is related to expenditure, revenue and borrowing decisions, the economic base and needs of the community, capital markets, public employees, and the overall economic system. Usually offered every fall. *Prerequisite:* two courses in public financial management.

54.637 Public Managerial Macroeconomics (3) An introduction to macroeconomic theory and applications as a basis for understanding the financial environment of public management. Basic models for short- and long-run forecasting of revenue and expenditures. The business cycle and political theories for explaining fiscal patterns at the federal, state, and local levels. Credit markets, interest rates, and debt management. *Prerequisite:* 54.630.

54.639 Studies in Financial Management (3) Topics include regulatory policy, commercial banking, and public policy. Usually offered every spring.

54.640 Leadership for Human Resource Development (3) This course deals with significant theories of leadership and human motivation that have shaped current applications in human resources. Emphasis is on those aspects of humanistic psychology most applicable to individual and group behavior in management. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.641 Methods of Problem Solving for Human Resource Development (3) An introduction to quantitative methods of analysis and problem solving. Students learn about different applications to training and organization development such as assessing training needs, evaluation designs, and survey techniques. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.642 Organization Dynamics for Human Resource Development (3) This course focuses on the structure and dynamics of organizations as complex systems. It also emphasizes the interaction of technology and environment with organizational action. Topics include organizations as dynamic open systems, organizational design and structure, contingency theories of organization, conflict and coordination in organizations, and the relationship of the individual and the organization. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.643 Financial Management for Human Resource Development (3) Financial analysis as a management tool. Emphasis is on budgeting techniques, pricing, fund accounting, and financial statements. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.646 Consultation Skills for Human Resource Development (3) This course provides students with the opportunity to practice consultation with local clients. Students develop their skills in client contact, contracting, diagnosis, intervention, feedback and follow-up, team building, and the delivery of services to a client, and become clearer about their own consultation style and level of expertise. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resource program.

54.647 Career Development for Human Resource Development (3) The course begins by building a community support system for learning. In the second phase, students work on their personal career development and life planning. In phase three, students are introduced to career development programs in organizations and how they relate to the productivity of individuals. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.648 Training Design and Facilitation for Human Resource Development (3) This course develops training skills and understanding of the basic theories of laboratory education and group dynamics. Students diagnose their training style and its effectiveness; learn about needs assessment techniques; develop design skills; and test their diagnostic skills. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.649 Studies in Human Resource Management (1-3) Rotating topics, including international human resource

development; conflict resolution for human resource development; and building effective work teams for human resource development. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.650 Leadership for Public Management (3) Analysis of individual students' potential or actual leadership style and capacity in public agencies through group experiences, relevant theory, and individual learning instruments. Usually offered every term.

54.652 Building Effective Work Teams (3) Strategies and techniques from the behavioral sciences that are used to improve the effectiveness of individuals, teams, and organizations. Data collection and feedback, group process observation, team building, conflict management, and structural interventions are reviewed and practiced along with current applications, trends, and professional issues. Usually offered every fall.

54.653 The Individual and the Organization (3) This course focuses on three major frameworks for understanding productive and dysfunctional behaviors in organizations: the behavioral, B.F. Skinner; the psychoanalytic, Sigmund Freud and Carl Jung; and the humanistic, Carl Rogers. Students have an opportunity to apply these theories to their own lives and work situations. Usually offered every spring.

54.654 Organization Diagnosis and Intervention (3) An examination of the structure and behavior of organizations. Emphasis on methods of inquiry as well as the boundaries, roles, and forces which influence human behavior in organizations. Usually offered every spring. *Prerequisite:* one foundation-level course in organization development or equivalent.

54.655 Consultation Skills for Managers (3) Theory and practice in building skills to help students address "people problems" creatively; focus on various aspects of the consultation role, such as building a climate for change, interviewing skills, generating and analyzing information, and principles for giving and receiving help. Consulting as an aspect of the manager's responsibilities. Usually offered every spring. *Prerequisite:* one foundation-level course in organization development or equivalent.

54.658 Conflict Resolution for Managers (3) The nature of conflict and its use in interpersonal, intergroup, and interorganizational settings. Identification of alternative approaches to dealing with conflict, early identification of incipient conflict, prevention of destructive conflict, and skills needed to help others seeking to resolve conflict among themselves. *Prerequisite:* one foundation-level course in organization development or equivalent.

54.661 Administrative Behavior (3) Human problems and behavior in organizations and methods of dealing with these problems. The psychological basis of individual behavior, group behavior, human motivation, power, communication, conflict, and organizational change are among the topics discussed. Usually offered every year.

54.662 Performance Appraisal and Productivity (3) Performance appraisal is mandated by the Civil Service Reform Act. This course deals with its basic elements, including goal setting, individual and organizational performance measurement, coaching and counseling, and productivity improvement among both unionized and non-unionized employees. Usually offered every fall. *Prerequisite:* 54.610 and 54.650.

54.665 Public Personnel Administration (3) Policies and managerial processes for dealing with governmental personnel, including staffing, personnel development, classification, performance appraisal, equal employment opportunity, and labor-management relations. Usually offered every year.

54.667 Labor Relations in Public Employment (3) Changing relationships between public employers, employees, and organizations of public employees; methods and implications of collective bargaining in the public sector. Usually offered every spring.

54.669 Studies in Human Resources and Organization Development (3) Selected topics in human resource management and organization development: career development, equal opportunity employment, organization theory, human problems, performance appraisal systems, and current issues in personnel administration. *Prerequisite:* 54.610 and 54.650.

54.674 Practicum Research Project (3) The practicum focuses on an organizational problem in human resource development, and uses techniques (qualitative or quantitative or both) in organizational diagnosis, intervention and change, and evaluation. Students work under the guidance of a faculty mentor. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.675 Organizational Planning and Control for Human Resource Development (3) An introduction to planning theory; an overview of efforts at governmental planning in the United States; an analysis of the techniques used to develop and implement organizational planning and control systems; and an examination of individual and group resistance to planning and the implications of this for public administration. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.676 Politics of Administration for Human Resource Development (3) The political context of administration for human resource professionals. Among the themes and principles explored are processes by which policy is formulated and implemented; political approaches to organizational change; political systems from the point of view of function, structure, and process; and formal and informal influence patterns. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.677 Introduction to Organizational Development for Human Resource Development (3) The practice of organizational development. Students are given an overview of the theory, terminology, and literature of organizational development, learn about various diagnostic and intervention tools, and are given the opportunity to plan for the application of what they have learned in their own organizations. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.678 Legal Issues in Public Administration for Human Resource Development (3) EEO and affirmative action, grievance handling, hiring and firing, training, and questions of equity, labor relations, and other issues of likely consultation for organizational management practitioners. This is a study of legal issues associated with the management of public and private sector organizations. Usually offered diagnosis and intervention for human resource development; personnel administration for

human resource development; and institute on group and personal interaction for human resource development. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.679 Studies in Human Resource Development (1-3) Rotating topics, including labor relations for human resource development; organizational diagnosis and intervention for human resource development; personnel administration for human resource development; and institute on group and personal interaction for human resource development. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.687 Urban Management (3) Council-manager relationships, work force staffing and development, the budget and community goals, ethical issues, management control, and external and regional effectiveness. Usually offered every fall.

54.690 Independent Study Project in Public Administration (1-6)

54.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

54.710 Seminar in Public Administration (3) An analysis of the various factors that contribute to the overall performance of the executive branch of government. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. Usually offered every term. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* admission to Ph.D. program or permission of instructor.

54.799 Doctoral Dissertation Seminar in Public Administration (1-12) May be repeated for credit; topic must be different.

Computer Science and Information Systems

Information Systems

Undergraduate Courses

55.101 Information and Systems /S (3) An introduction to the roles of information and systems theory in managerial decision making. The course provides the historical perspective for an appreciation of the information-consciousness of our society. Usually offered every term.

55.210 Introduction to Computer Information Systems (3) This is the first course in the Computer Information Systems major. It is an introduction to the role of the computer in modern organizations, discussing hardware and software, computer-application development, data processing and database systems, and the impact of computer information systems on society. Usually offered every term.

55.234 Programing Concepts I: COBOL (3) Basic concepts of computer programing using COBOL. Development of the algorithmic models used in constructing file edit and report programs. Usually offered every term. *Prerequisite:* 55.210, which may be taken concurrently.

55.235 Programing Concepts II: Advanced COBOL /N (3) Development of the algorithmic models used in constructing file maintenance programs. Exposure to the advanced COBOL facilities such as the sort utility, report writer, and external modules. *Prerequisite:* 55.234.

55.315 Human Factors in Systems Computer Information (3) Examination of human needs in developing, operating, and using information systems. Methods for analyzing the social, organizational, and human aspects of information systems. Usually offered every spring. *Prerequisite:* 55.210.

55.325 Computer Hardware and Systems Software (3) This course covers the major hardware and software components of computer systems, as well as issues related to their use by organizations, such as feasibility analysis, hardware and software selection, and computer center layout. Usually offered every spring. *Prerequisite:* 55.210.

55.363 Microcomputer Applications in Computer Information Systems (3) This course surveys microcomputer hardware and software in information system applications. It examines the capabilities and limitations of microcomputers, discusses hardware and software acquisitions, and reviews software used in information systems. *Prerequisite:* 55.210.

55.390 Independent Reading in Computer Information Systems (1-6)

55.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

55.432 Introduction to Simulation and Modeling (3) Design and implementation of simulation models for systems design and analysis. Emphasis on discrete stochastic systems and real-world business and government problems including resource allocation, queuing, inventory control, and industrial production. Overview of principal simulation languages and their applicability to problem solving. *Prerequisite:* 41.211 (or 41.221), 42.202, 55.210, and competence in a high-level programming language.

55.436 Computer Operating Systems Management (3) Fundamentals of operating systems management techniques directed toward optimum use of computer systems resources. Concepts of resource allocation and management (scheduling and dispatching of central processor and memory, and input/output management) and data management. Language processors, utility programs, telecommunications, and other system software that interact with the primary functions of the central system. Usually offered every spring. *Prerequisites:* 55.210 and 55.325.

55.440 Database Management in Computer Information Systems (3) The design, development, and control of databases and applications software based on database. Topics include database models and software, logical and physical database design, applications development, and database administration. Usually offered every fall. *Prerequisite:* 55.235

55.450 Information Storage and Retrieval (3) Introduction to the application of the computer in handling scientific, technical, and scholarly literature. The role of the modern information center in providing management with relevant and up-to-date information back-up for decision making. Usually offered every fall.

55.455 Introduction to Systems Analysis (3) Traditional analysis, design through the data flow analysis, and system development life cycle approach. Methods for struc-

tured analysis and design are covered. Also treated are data structures, definitions, and normalization. Emphasis is on gaining an ability to use the various tools associated with systems analysis. Usually offered every fall. *Prerequisite:* 55.234

55.460 Applied Systems Design (3) This course builds on previous courses and allows students to apply the tools studied in 55.455. In the course of the semester, the class follows the life cycle process to produce specifications for a current system, develop the physical design for a new system, and to the extent possible, implement their system. The use of project team work is emphasized. Usually offered every term. *Prerequisite:* 55.455.

55.465 Documentation of Programs and Systems (3) The basis and supporting rationale for complete, clear, concise documentation needed by organizational and project managers, analysts, and programmers. Study and application of tools and techniques for technical and management people to establish and evaluate documentation practices. Management commitment and organizational structure. Usually offered every fall. *Prerequisite:* 55.234

55.480 Senior Seminar in Computer Information Systems (3) This is a capstone course intended to encourage the student to explore the interrelationships between the theory and substance of computer information systems as a field of study. Students and faculty present concepts for critical review. A major project is usually required. Usually offered every term. *Prerequisites:* 55.315, 55.440, 55.460 (may be taken concurrently) and senior standing.

55.485 Senior Workshop in Computer Information Systems (3) This is a capstone course in information system development. Students will demonstrate their mastery of the tools and techniques of information system development by participating in the development of a real world information system. Usually offered every term. *Prerequisites:* 55.315, 55.460 and 55.465 and senior standing

55.490 Independent Study in Computer Information Systems (1-6)

55.491 Internship (1-6) *Prerequisite:* permission of appropriate program director.

Graduate and Advanced Undergraduate Courses

55.511 Concepts in Systems and Information (3) The major concepts and techniques that comprise the systems perspective; applications of systems concepts and related techniques in organizations. Provides an introduction to the major functional areas within information systems, including information systems planning, the systems development life cycle, and structured techniques and tools.

55.515 Human Factors in Information Systems (3) The human aspects of information systems and their development. The effects of human factors in the design and development phases of the systems development life cycle. *Prerequisite:* 55.511 or concurrent registration.

55.530 Real-Time Systems (3) A survey of the development, uses, and limitations of real-time data-processing systems and the contemporary issues related to managing them. Hardware and software capabilities, teleprocessing concepts, distributed systems, man-machine factors, queuing theory, simulation tools, systems planning and control, security, and privacy. Usually offered every term. *Prerequisite:* 55.606 and 55.630; or 55.210, 55.234, and 42.202.

55.531 Computer Design and Comparative Systems (3) Number systems, Boolean algebra, and the logical design and organization of the digital computer and its functional components. Analysis and comparison of various design alternatives and the major architectural features of current small, medium, and large-scale commercial computer technology. Usually offered every term. *Prerequisite:* 55.530.

55.532 Advanced Programming Management (3) A study of software development. Contemporary techniques and philosophies of software design and implementation are examined. Research projects encompass the areas of organizing personnel and stylized techniques of design and implementation. An extensive review of periodical literature is required. Usually offered every fall. *Prerequisite:* 55.210 and competence in a high level programming language.

55.533 Concepts in Computer Communication (3) Computer communications and networking. Basic concepts of communication protocols are examined, from simple protocols to support terminal interfaces through various levels of protocol found in modern networks. Usually offered every spring. *Prerequisite:* 55.210.

55.534 Microcomputer Applications for Managers (3) Capabilities and limitations of microcomputer applications. When, where, and how microcomputers should be used to support modern systems. A comparative analysis of the major architectural features of current microcomputers, including software, hardware, peripheral devices, and environmental support requirements. Usually offered every term. *Prerequisite:* 55.210 or equivalent and competence in one programming language.

55.560 Systems Analysis and Design (3) The methods and processes of systems analysis. Emphasis is placed on analytic tasks relating to systems development, and the organizational and technological context within which these analytical tasks are addressed. *Prerequisite:* 55.511 and 55.515 or concurrent registration.

55.590 Independent Reading Course in Information Systems (1-6)

Graduate Courses

55.606 Quantitative Analysis for Information Systems (3) Quantitative tools applied to the solution of problems in applying, managing, and evaluating information technologies, including statistical, operations-research, and modeling techniques. Usually offered every term.

55.630 Introduction to Computer Applications (3) Topics include current and future computer technology and its effect on managers, computer hardware and software, programming and management issues such as: data-base management systems, computer security, systems analysis, and management information systems. Usually offered every term.

55.634 Microcomputer Software (3) Examines many aspects of microcomputer applications and systems software. Covers fundamentals, operating systems, and evaluation and selection of software packages and languages. Commercial software packages are related to the microcomputer as alternate tools of management. An opportunity to examine and compare a number of microcomputer software applications packages. *Prerequisite:* 55.534, which may be taken concurrently with permission of instructor.

55.635 Workshops in Computer Systems Applications (3) Typical topics are: data base management systems, distributed systems, evaluation and selection of computer systems, privacy and security, and performance evaluation. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 55.511 and 55.530.

55.637 Operating Systems (3) Operating-systems concepts for computer systems, including resource allocation, data management, communications management, and performance evaluation. Interactions of an operating system's constituent subsystems and popular methods of implementation. Usually offered every term. *Prerequisite:* permission of instructor.

55.641 Methods of Operations Research (3) Mathematical techniques of operations research. Linear and nonlinear programming, game theory, and inventory theory. Usually offered every fall. *Prerequisite:* 42.502.

55.647 Project Management (3) An introduction to the technology of project planning and management with emphasis on large-scale projects and programs. Sources of information concerning funding organizations. Planning and scheduling techniques including PERT, Gantt charts, LOB, and DELTA charts. Special management problems associated with scientific and technical projects.

55.660 Information Systems Design and Development (3) Methods and processes of systems design and implementation. Focus is on structured methods and tools such as data dictionaries, data structure charts, data structure diagrams, and entity relationship diagrams. *Prerequisite:* 55.560.

55.661 Telecommunications and Management Information Systems (3) The relationships of data communications and management information systems. The current state of the art and probable future developments in data communications systems. Usually offered every term. *Prerequisite:* 55.530.

55.662 Information Systems Management (3) The management issues and problems of planning, developing, installing, operating, and maintaining information systems in organizations. Special focus is placed on the connection of managerial and technical resources in organizations. Attention is paid to political, economic, and organizational factors. *Prerequisite:* 55.560.

55.665 Analysis and Design Workshop (3) An advanced information systems course. Students use structured techniques to analyze and design an information system for a real-world organization. *Prerequisite:* 55.660.

55.690 Independent Study Project in Information Systems (1-6)

55.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication

55.730 Seminar in Computer Systems Applications (3) A synthesis of all aspects of computer systems applications. Involves an intensive review of the literature of the field. Students participate in seminar discussions and produce several research products. Usually offered every term. *Prerequisite:* completion of field courses.

55.760 Information Systems Seminar (3) Research seminar requiring a major research paper relevant to the present issues and challenges of the discipline. Students examine current and emerging technological, organiza-

tional, economic and political issues. Critical reading in the literature of the field is required. *Prerequisite:* 55.660 and 55.662

55.797 Master's Thesis Seminar (1-6) Usually offered every term. *Prerequisite:* completion of field courses and permission of instructor.

Washington Semester

Undergraduate Courses

56.100 Washington Summer Seminar (2) For advance college credit for high-school juniors and seniors. Field study of major components of American national government and the political processes that support and affect it. Selected policy issues. Usually offered every summer.

56.500 Washington Summer Internship (3) The Washington Summer Internship Program is designed to provide on-the-job training for college students from across the country in their respective fields of interest. Students work four and one-half days each week. The other one-half day is devoted to seminars with practitioners and small group discussions. *Prerequisite:* junior, senior, or first-year graduate standing.

Psychology

Undergraduate Courses

57.105 Psychology as a Social Science /S 4:1 (3) Survey of the social bases of behavior and the individual foundations of group and social behavior. The concepts and methodologies of psychology in such areas as social learning, motivation, personality, sex similarities and differences, and abnormal behavior. The interaction between the individual and social institutions is emphasized. Usually offered every term. *Note:* not open to students who have taken 57.100 Introductory Survey of Psychology.

57.115 Experimental Foundations of Psychology /N 5:1 (3) Through lectures and computer exercises, students are introduced to the many experimental questions addressed in psychology (e.g., biological bases of behavior, conditioning and learning, perception, drug use and abuse) as well as to the specific methods used in psychological research and the general research approaches used in science. Usually offered every term. *Prerequisite:* completion of College Mathematics requirement. *Note:* not open to students who have taken 01.301 Foundations of Experimental Psychology or, 57.100 Introductory Survey of Psychology.

57.200 Behavior Principles /N 5:2 (3) The experimental analysis of behavior (EAOB) systematically relates a behavior's probability to its consequences (reinforcement and punishment). Principles derived from the EAOB are used to explain simple animal learning, stimulus control, behavioral sequences and patterning, verbal and other complex human behavior, and emotion. Issues raised by a behavioral approach to human conduct are discussed. Usually offered every term. *Prerequisite:* completion of College Mathematics requirement and, if taken for General Education credit, 57.115 or 09.100. *Note:* not open to students who have taken 57.110 Behavioral Principles.

57.205 Social Psychology /S 4:2 (3) The processes of social thinking, such as the attribution of causality and

the relation of attitudes to behavior; social influence, such as conformity, obedience, and persuasion; and social relations, including aggression, altruism, prejudice, and attraction. Focus on the individual in social settings. Research methods are emphasized. *Prerequisite:* for General Education credit: 57.105 or 54.105. *Note:* not open to students who have taken 57.340 Social Psychology.

57.210 Self-Management (3) Principles of cognitive-behavioral self-control for achievement of personal goals. Self-management research is reviewed in weight loss, studying, self-esteem, giving up smoking, drug addiction, depression, time management, and enjoying oneself. Students conduct self-modification projects in group settings. Usually offered every spring and summer. *Prerequisite:* 57.105.

57.215 Abnormal Psychology and Society /S 4:2 (3) Focus on behavior labeled as abnormal by society. Abnormal behavior as a function of the individual's interaction with social institutions (family, school, legal system, mental-health system, etc.). Introduction to the major concepts, theories, and issues of abnormal psychology. Usually offered every term. *Prerequisite:* for General Education credit: 57.105 or 73.100. *Note:* not open to students who have taken 57.350 Abnormal Psychology.

57.220 Perception /N 5:2 (3) An introductory discussion of why things appear as they do. Investigation of our perceptual experiences—their origins, refinements, interpretations, and applications. Discussion of scientific theory and research on the senses. Usually offered every fall. *Prerequisite:* completion of College Mathematics requirement and if taken for General Education credit, 09.110 and 09.111, or 51.100, or 51.105 and 51.111, or 51.110 and 51.111, or 57.115. *Note:* not open to students who have taken 57.303 Perception and Judgement.

57.225 Neurobiological Bases of Behavior /N 5:2 (3) Introduction to the biological bases of behavior. Topics include basic neurophysiology (activation of neurons and communication among cells), the basic organization of the nervous system, the role of the brain in receiving stimuli, and the neurobiology of motivated behavior, learning, and behavior disorders. Usually offered every fall. *Prerequisite:* completion of College Mathematics requirement and, if taken for General Education credit, 57.115 or 09.100 or 09.110 and 09.111. *Note:* not open to students who have taken 57.313 Biological Bases of Behavior.

57.230 Theories of Personality /S 2:2 (3) Students explore and critically compare four major approaches to understanding uniqueness in human behavior, emotion, and thought: holistic, dynamic, learning, and trait/biological. Class debates, exercises, and a paper help students to use these theories to understand their own and others' personalities. Usually offered every term. *Prerequisite:* for General Education credit: 53.105 or 29.100. *Note:* not open to students who have taken 57.330 Theories of Personality.

57.240 Drugs and Behavior /N 5:2 (3) This introduction to psychoactive drugs and their effects includes an overview of general physiology, neurochemistry, and pharmacology as well as a survey of the basic physiological, pharmacological, and behavioral effects of drugs. The course focuses on the etiology and consequences of addiction and dependence. Critical evaluation of research methodology in drug assessment is stressed. Usually offered alternate springs. *Prerequisite:* completion of College Mathematics requirement and, if taken for General Education credit, 57.115 or 09.100. *Note:* not open to students who have taken 01.201 Drugs and Behavior.

57.250 Child Psychology (3) Introduction to development from infancy through adolescence. Emphasis on theory and research in normal development: genetics, growth, and maturation; sensation and perception; motivation; cognitive and social functioning. Usually offered every term. *Prerequisite:* 57.105.

57.275 Cognitive Psychology (3) This course provides an overview of cognitive psychology and addresses such topics as attention and pattern recognition, perception, memory, language, and thinking. The purpose is to introduce the student to that branch of psychology that investigates the so-called higher mental processes. *Prerequisite:* 57.115 or equivalent.

57.307 Crisis Intervention and Telephone Counseling (4) Methods of short-term telephone counseling for a broad range of problems (from loneliness and depression to suicide and other crisis states). Includes practicum experience for which screening and training are required. Topic changes each semester. May be repeated for credit (with permission of the department), but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* 57.105 and 57.230 or 57.215 and permission of instructor.

57.320 Women and Mental Health (3) This course focuses on women's functioning. Topics addressed includes theories of the personality of women, common adjustment problems faced by women, and emotional problems prevalent in women. Usually offered alternate falls. *Prerequisite:* 57.105.

57.333 Health Psychology (3) An exploration of how psychological theories and techniques can minimize unnecessary morbidity and premature mortality. Behavioral, cognitive, and affective targets for primary and secondary prevention efforts are identified from epidemiological theory and research. Also detailed ways in which psychological methods can contribute to provision of outpatient and inpatient medical services. Usually offered every fall. *Prerequisite:* 57.105 or equivalent.

57.360 The Evolution of Behavior (3) Approaches to the study of animal and human behavior with emphasis on the explanation of these behaviors in light of ecology and evolution. Topics include aggression, language, sex differences, intelligence, development, learning, and instinct. Usually offered every spring. *Prerequisite:* 57.115.

57.370 Learning and Behavior (3) Research and theory in animal learning. Covers classical and instrumental conditioning. Ethology and biological constraints on learning. Usually offered every term. *Prerequisite:* 57.115.

57.390 Independent Reading Course in Psychology (1-6)

57.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

57.430 Human Sexual Behavior (3) Basic physiological knowledge, sex education, sexual myths, premarital and marital sexual behavior, homosexuality, pornography, etc. Emphasis on psychological aspects of sex and sexuality. Usually offered every term. *Prerequisite:* 57.105.

57.456 Controversial Issues in Psychology (3) A seminar that considers some of the fundamental ideas in psychology through reading and discussion. Usually offered every spring. *Prerequisite:* permission of instructor.

57.470 Introduction to Clinical Psychology (3) The focus is on two major activities of clinical psychologists: assessment and clinical intervention (psychotherapy and program models). Topics also include the functions, history, training, and ethics of the profession. *Prerequisite:* 57.105 and either 57.230 or 57.215.

57.480 Experimental Psychology (4) Data and research methods in core areas of psychology. Review of experimental design. Individual and group experiments. Usually offered every term. *Prerequisite:* 57.105, 57.115, and 42.202.

57.490 Independent Study Project in Psychology (1-6)

57.491 Internship (1-3) Practical experience in a professional setting in the metropolitan area. For advanced psychology majors. Usually offered every term. *Prerequisite:* permission of instructor.

57.497 Advanced Topics in Psychology (3) Individual sections cover advanced topics in psychology and vary from semester to semester. Each section is an intensive course in a specialized area of psychology. Enrollment is limited. May be repeated for credit in the same term but topic must be different. Usually offered every term. *Prerequisite:* junior standing, three psychology courses, and permission of instructor.

57.498 Honors Seminar (1) Students participate in supervised research on a review project. The proposal, analysis, and conclusions of this research will be discussed among other honors students as well as with departmental faculty. Honors thesis will be presented at Honors conference. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

Graduate and Advanced Undergraduate Courses

57.501 Physiological Psychology (3) Anatomical and physiological substrata of behavior. Usually offered alternate springs. *Prerequisite:* junior standing, two departmental courses, and permission of instructor.

57.502 History and Systems of Psychology (3) Philosophical and scientific background of modern psychology and contemporary problems of theory construction. Usually offered every fall. *Prerequisite:* 57.115 and senior standing.

57.503 Sensation and Perception (3) Sensory and complex perceptual processes are discussed in light of contemporary theories in research. Knowledge of basic statistics is desirable. Usually offered alternate falls. *Prerequisite:* 57.220 or graduate standing.

57.505 Advanced Theories of Personality (3) A critical comparison of how trait, psychodynamic, social-learning, and phenomenological approaches to personality contribute to theory, research, and therapy. Usually offered alternate springs. *Prerequisite:* 57.230 or graduate standing or permission of instructor.

57.513 Neuropharmacology: Biochemistry (3) Following an overview of central nervous system physiology, this class gives a detailed examination of the range of neurotransmitters involved in neural communication and modulation. Each neurotransmitter is described in the context of its biochemistry, distribution, pharmacology and involvement in both normal and abnormal behavior. Usually offered every fall. *Prerequisite:* 57.105 and 57.115 or permission of instructor.

57.514 Industrial/Organizational Psychology (3) Application of psychological principles to the field of work. Topics include selection, training, evaluation, leadership, motivation, decision making, job attitudes and satisfaction, organizational structure and theory, and human factors. Usually offered every spring. *Prerequisite:* two psychology courses and one statistics course.

57.515 Biopsychology Laboratory Methods (4) Demonstration and practice of commonly used surgical, histological, and electrophysiological methods in biopsychological and neurobiological research. Usually offered alternate springs. *Prerequisite:* permission of instructor.

57.520 The Psychology of Suicide and Life-Threatening Behavior (3) Death, mourning, depression, suicide, and self-destructive behavior are studied from psychological, social, philosophical, religious, legal, and practical viewpoints. Emphasis is on the theoretical, developmental, and clinical aspects of these phenomena, their influence on survivors, interpersonal supports, and on the effect and prevention of suicidal behavior. Literature and experimental research are required. Usually offered every spring. *Prerequisite:* 57.105 and junior standing.

57.525 Clinical Research Practica (3-4) Merges clinical and experimental psychology in lectures, readings, discussions, and practicum experience. Students collaborate with other students in designing, implementing, and assessing the effectiveness and cost of therapies or in assessing the outcomes of applied experiments. May be repeated for credit; topic must be different. Usually offered every term. *Prerequisite:* 57.210 or 57.215 or 57.230 or 57.307 or 57.480 or graduate standing.

57.530 Conditioning and Learning (3) Advanced analysis of operations and principles developed through the systematic study of classical and operant conditioning. Seminar for advanced graduate students in psychology. Topics are primarily in the area of operant conditioning. Usually offered alternate springs. *Prerequisite:* 57.200, 57.370, or graduate standing.

57.535 Behavior Therapy Techniques (3) A survey course that covers the research, theory, and applications of all major behavior therapy techniques. The course covers such topics as systematic desensitization, assertive training, cognitive-behavior therapy, aversive therapy, use of positive reinforcement, exposure and response prevention, token economies, over-correction, ethical issues. Usually offered alternate falls. *Prerequisite:* for undergraduates, permission of instructor.

57.550 Psychological Research I (3) An in-depth examination of experimental design and methods of conducting research in clinical, social, experimental, and biopsychology. Usually offered every spring. *Prerequisite:* 57.480 or graduate standing.

57.551 Psychopathology (3) Case-study seminar on psychopathological behavior. Focus on symptoms and syndromes from conflict/stress-defense model. Usually offered every fall. *Prerequisite:* permission of instructor.

57.560 Advanced Child Psychology (3) Current theoretical and research issues in child psychology. Areas of emphasis include socialization, affective development, and cognitive development. Students, from their readings and discussion, critically analyze existing data and formulate questions for further investigation. Usually offered alternate falls. *Prerequisite:* 42.202, 57.250, and 57.480.

57.570 Behavioral Medicine (3) Acquaints students with psychological theory, research, and practical techniques for maintaining health, preventing dysfunctions, and remediate health problems. Topics include cognitive-behavioral techniques for cardiovascular risk reduction (smoking, obesity, stress, diet), exercise enhancement, time management, adherence to medical regimens, and problems with nervous, respiratory, gastrointestinal, and musculoskeletal systems. Usually offered every fall.

57.575 Human Cognition (3) After a short review of the field in general this course focuses on some specific issues, both theoretical and applied, that are of current interest in areas such as attention, perception, human memory, and thought processes. Usually offered alternate falls. *Prerequisite:* 57.105 and 57.115 and permission of instructor.

57.580 Behavior Therapy Practicum (3) Students are placed at facilities where behavior modification is employed. Intensive work with individual clients. Review of behavior therapy techniques. Weekly seminar and supervision. Usually offered every spring.

57.590 Independent Reading Course in Psychology (1-6)

Graduate Courses

57.601 Psychological Research II (3) Research practice and preparation of scientific reports. A laboratory-based course which emphasizes the procedures of designing experiments in various areas of psychology: collection, analysis and interpretation of data, and preparation of research reports. Usually offered alternate falls. *Prerequisite:* 57.480 and permission of instructor.

57.609 Ethics and Professional Practices (3) Theoretical and conceptual questions and social problems in the area of ethics and professional practice. Ethical standards, codes, and legislation of psychologists and related professions, and ethical problems of community mental health are examined. Usually offered every summer.

57.630 Systems of Psychotherapy (3) Nonbehavioral approaches to psychotherapy, including psychoanalytic, Rogerian, rational-emotive, Gestalt, and existential approaches. Usually offered alternate falls. *Prerequisite:* permission of instructor.

57.640 Advanced Social Psychology (3) Psychological factors in human social behavior. Examination of research literature with emphasis on design and methodology. Theoretical problems in social behavior and current trends in experimentation. Usually offered every spring. *Prerequisite:* permission of instructor.

57.650 Assessment of Intellectual Functions (3) An examination of representative individual tests and their theoretical bases, and laboratory practice in administering, scoring, and interpreting them. Usually offered every fall. *Prerequisite:* permission of instructor.

57.651 Personality Testing (3) Representative personality tests and projective techniques, with laboratory practice in administering, scoring, and interpreting them. Usually offered every spring. *Prerequisite:* permission of instructor.

57.680 Practicum Training I (3) Practice in skills related to counseling-psychotherapy by systematic exposure to critical elements in interviews through supervision and guided observation. Usually offered every fall. *Prerequisite:* permission of instructor.

57.661 Practicum Training II (3) Continuation of Practicum Training I. Usually offered every spring. *Prerequisite:* permission of instructor.

57.682 Practicum Training III (3) Supervision in individual and group psychotherapy from a psychodynamic point of view. Usually offered every fall. *Prerequisite:* permission of instructor.

57.683 Practicum Training IV (3) Continuation of Practicum Training III. Usually offered every spring. *Prerequisite:* permission of instructor.

57.690 Independent Study Project in Psychology (1-6)

57.696 Directed Research (3-6) Consult the department. May be repeated for credit in the same term; topic may be the same. Usually offered every term.

57.791 Clinical Seminar in Psychotherapy I (3) Usually offered every fall.

57.792 Clinical Seminar in Psychotherapy II (3) Usually offered every spring.

57.797 Master's Thesis Seminar (1-6)

57.799 Doctoral Dissertation Seminar (1-12)

Philosophy and Religion

Philosophy

Undergraduate Courses

60.100 Introduction to Logic (3) Basic principles of inductive and deductive reasoning. Text and exercises supplemented by readings and discussions in history, philosophy, and applications of logic. Usually offered every term.

60.105 Western Philosophy / A 2:1 (3) A historical introduction to the Western philosophical tradition. Students closely examine classic and contemporary texts on the nature of reality, truth, morality, goodness, and justice; the possibility of knowledge; faith, reason, and the existence of God; and the issue of freedom and determinism. *Note:* not open to students who have taken 60.101 introduction to Philosophy.

60.200 Selected Basic Topics in Philosophy (3) Topics include great ideas that changed history; moral choices in contemporary society; popular issues in philosophy; philosophy, psychology, and the emotions; and existentialism. May be repeated for credit in the same term; topic must be different. Usually offered every term.

60.210 European Philosophy and the American Experiment / S 2:2 (3) The founding documents of the American nation—the Declaration of Independence and the Constitution—are uniquely philosophical. Students examine the philosophical writings that influenced the authors of these documents, and then analyze the documents against this background. Criticisms of the documents and current disputes about their proper role are considered. Usually offered every spring. *Prerequisite:* for General Education credit: 53.105, or 60.105, or 29.110.

60.220 Moral Philosophy / A 2:2 (3) The theories concerning the nature of goodness found in Western Philosophy. The major topics of discussion are: traditional principles for evaluating goodness and telling right from wrong; the difference between fact and value; the justification of normative judgments; objectivity in ethics; and

the relationship between moral and nonmoral goodness. Usually offered every term. *Prerequisite:* for General Education credit: 60.105 or 76.150. *Note:* not open to students who have taken 60.320 Ethics.

60.221 Philosophy, Politics, and Society / A, S (3) Theories of the nature of society and justification of social institutions. Critical study of such social problems as control of technology and the education, militarism, racism, imperialism, civil disobedience, rebellion, and revolution. Usually offered every spring.

60.225 Ethical Issues in Government, Business, and Media / S 4:2 (3) The major types of ethical principles that affect individual behavior in public and private institutions. The constraints that organizational structures and technology impose on ethical decision making. Case studies of employee privacy, welfare rights, affirmative action, advertising and research ethics, professional ethical codes, exploitation, developmental ethics, just war theories. Usually offered every term. *Prerequisite:* for General Education credit: 53.110 or 54.105. *Note:* not open to students who have taken 60.223 Moral Issues in Business and Government.

60.230 Meaning and Purpose in the Arts / A 1:2 (3) Leading theories of the nature, purpose, and meaning of artistic activities and objects examined through writings of philosophers, artists, and critics of ancient and modern times. Both Western and non-Western viewpoints are considered. Student projects apply critical ideas to particular works in an art form familiar to them. Usually offered every fall. *Prerequisite:* for General Education credit: 23.105, or 67.110, or 05.100. *Note:* not open to students who have taken 60.330 Aesthetics.

60.300 Ancient and Medieval Philosophy / A (3) History of Western philosophy from the earliest period through the sixteenth century. Philosophers and their general cultural milieu. The formation of the classical world view and accommodation of this world picture to requirements of Judaism, Christianity, and Islam. Meets with 60.600. Usually offered every fall.

60.301 Modern Philosophy from Bacon to Hegel / A (3) Modern Western philosophic ideas are studied in relation to the scientific, cultural, and political environment of seventeenth and eighteenth-century Europe. No previous course in philosophy required, but students will find it helpful to have taken 60.300. Meets with 60.601. Usually offered every spring.

60.302 Nineteenth-Century Philosophy (3) This is the first of two courses that explore the fundamental themes of contemporary Western philosophy and their relation to historical developments, such as the Industrial Revolution, and scientific developments, such as the Darwinian revolution. Among the topics covered are utilitarianism, pragmatism, Marxism, existentialism, and philosophy of science. Usually offered every fall. *Prerequisite:* one introductory course in philosophy.

60.303 Twentieth-Century Philosophy (3) This is the sequel to 60.302. It explores the fundamental themes of contemporary Western philosophy in view of historical developments, such as the world wars, and intellectual developments, such as Einstein's and Freud's discoveries. Among topics covered are pragmatism, Marxism, existentialism, phenomenology, deconstructionism, philosophy of science, analytic philosophy. Usually offered every spring. *Prerequisite:* one introductory course in philosophy.

60.310 The Classical Period (3) Regularly recurring topics: the pre-Socratics, Plato, Aristotle, Neo-Platonism, and Augustine. Meets with 60.610. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall. *Prerequisite:* 60.300 or permission of instructor.

60.311 Modern European Movements (3) Regularly recurring topics: the British empiricists, continental rationalists, Kant, Hegel, and post-Hegelian idealism. Meets with 60.611. May be repeated for credit but not in the same term; topic must be different. Usually offered every spring. *Prerequisite:* 60.301 or permission of instructor.

60.312 Recent and Contemporary Philosophers (3) Regularly recurring topics: Nietzsche, Kierkegaard, Husserl, naturalism, French existentialism, German existentialism, post-existential European philosophy, and analytic philosophy and phenomenology. Meets with 60.612. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.313 Studies in Oriental Philosophy (3) Regularly recurring topics: Buddhist philosophy, Chinese philosophy. Meets with 60.613. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs.

60.314 American Philosophy (3) The background and substance of American philosophy since colonial times. The role of philosophical ideas, European and indigenous, in the growth of American culture. Meets with 60.614. Usually offered alternate falls. *Prerequisite:* one course in philosophy.

60.341 Philosophy of the Social Sciences (3) The nature of explanation, extent of prediction, use of theories, applicability of the methods of natural sciences in the social sciences, and objectivity and value-neutrality of social scientific knowledge. Meets with 60.641. Usually offered every spring. *Prerequisite:* one course in philosophy or permission of instructor.

60.342 Philosophy of Psychology (3) After reviewing traditional philosophical problems concerning mind-body dualism, the course explores the various attempts to formulate a naturalistic theory of human cognition and behavior, including neurophysiological approaches, attempts at computer simulation of behavior, artificial intelligence, and problems of rationality, language, and personal identity. Meets with 60.642. Usually offered alternate falls. *Prerequisite:* one course in philosophy or permission of instructor.

60.350 Modern Deductive Logic (3) Introduction to modern symbolic methods in deductive reasoning; the merits of competing systems and the philosophical issues involved. No special knowledge of mathematics required. Meets with 60.650. Usually offered alternate springs. *Prerequisite:* 60.100 or permission of instructor.

60.353 Metaphysics (3) One of the following topics: mind and soul, the concept of freedom, analysis and explanation of action, and metaphysics and metaphilosophy. Meets with 60.653. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* two courses in philosophy or permission of instructor.

60.355 Philosophy of Religion (3) Leading contemporary movements in the philosophy of religion. Meets with

60.655. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.386 Selected Topics in Philosophy (3) Themes posed by nonrational challenges to the major scientific and cultural movements in nineteenth- and twentieth-century thought. Emphasis on the relationships between these developments and their artistic, social, and political counterparts. Approved topics are: the irrational, atheism, the demonic, nihilism, and the absurd; consciousness and alienation. Meets with 60.686. *Prerequisite:* 60.105 or permission of instructor.

60.390 Independent Reading Course in Philosophy (1-6)

60.490 Independent Study Project in Philosophy (1-6)

60.498 Honors Project in Philosophy (3-6) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* departmental and University Honors Program permission.

Graduate and Advanced Undergraduate Course

60.590 Independent Reading Course in Philosophy (1-6)

Graduate Courses

Note: Courses at the 600 level generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

60.600 Ancient and Medieval Philosophy (3) History of Western philosophy from the earliest period through the sixteenth century. Philosophers and their general cultural milieu. The formation of the classical world view and accommodation of this world picture to requirements of Judaism, Christianity, and Islam. Meets with 60.300. Usually offered every fall.

60.601 Modern Philosophy from Bacon to Hegel (3) Modern Western philosophical ideas are studied in relation to the scientific, cultural, and political environment of seventeenth and eighteenth-century Europe. No previous course in philosophy required, but students will find it helpful to have taken 60.600. Meets with 60.301. Usually offered every spring.

60.602 Nineteenth Century Philosophy (3) This is the first of two courses that explore the fundamental themes of contemporary Western philosophy and their relation to historical developments, such as the Industrial Revolution, and to scientific developments, such as the Darwinian Revolution. Among the topics covered are utilitarianism, pragmatism, Marxism, existentialism, and the philosophy of science. Usually offered every fall. *Prerequisite:* one introductory course in philosophy.

60.603 Twentieth Century Philosophy (3) This is the sequel to 60.602. The course explores the fundamental themes of contemporary Western philosophy in view of historical developments, such as the world wars, and of intellectual developments, such as Einstein's and Freud's discoveries. Among topics covered are pragmatism, Marxism, existentialism, phenomenology, deconstructionism, philosophy of science, analytic philosophy. Usually offered every spring. *Prerequisite:* one introductory course in philosophy.

60.610 The Classical Period (3) Regularly recurring topics: the pre-Socratics, Plato, Aristotle, Neo-Platonism,

and Augustine. Meets with 60.310. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall. *Prerequisite*: 60.600 or permission of instructor.

60.611 Modern European Movements (3) Regularly recurring topics: the British empiricists, continental rationalists, Kant, Hegel, and post-Hegelian idealism. Meets with 60.311. May be repeated for credit but not in the same term; topic must be different. Usually offered every spring. *Prerequisite*: 60.601 or permission of instructor.

60.612 Recent and Contemporary Philosophers (3) Regularly recurring topics: Nietzsche, Kierkegaard, Husserl, naturalism, French existentialism, German existentialism, post-existential European philosophy, and analytic philosophy and phenomenology. Meets with 60.312. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite*: two courses in philosophy or permission of instructor.

60.613 Studies in Oriental Philosophy (3) Regularly recurring topics: Buddhist philosophy, Chinese philosophy. Meets with 60.313. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs.

60.614 American Philosophy (3) The background and substance of American philosophy since colonial times. The role of philosophical ideas, European and indigenous, in the growth of American culture. Meets with 60.314. Usually offered alternate falls. *Prerequisite*: one course in philosophy.

60.620 Seminar on Ethical Theory (3) Survey of the development of ethical theory in Western philosophy by analysis of major works in classical and contemporary moral philosophy. Among the issues investigated are the nature of the good and the right, the possibility of moral knowledge, the principles of individual virtue and social justice, the problems of ethical relativism and absolutism, and the foundations of modern conceptions of human rights. Usually offered every fall. *Prerequisite*: one introductory course in philosophy.

60.625 Seminar on Modern Moral Problems (3) Investigation of moral philosophers' attempts to analyze specific moral problems (e.g., abortion, euthanasia, pornography, surrogate parenting, capital punishment, economic justice, affirmative action, research with human subjects, genetic research, government secrecy and deception) and to formulate general principles for ethical analysis of social policies and professional ethics (for lawyers, doctors, etc.). Usually offered every spring. *Prerequisite*: one introductory course in philosophy.

60.630 Aesthetics (3) Philosophical theories of the meaning and value of art in Western culture, illustrated by reference to works of literature, drama, painting, sculpture, architecture, and music. Students majoring in artistic fields are encouraged to do interdisciplinary projects dealing with application of aesthetic theory to materials in their own fields. Usually offered alternate falls. *Prerequisite*: one course in philosophy or permission of instructor.

60.641 Philosophy of the Social Sciences (3) The nature of explanation, extent of prediction, use of theories, applicability of the methods of natural sciences in the social sciences, and objectivity and value-neutrality of social scientific knowledge. Meets with 60.341. Usually offered every spring. *Prerequisite*: one course in philosophy or permission of instructor.

60.642 Philosophy of Psychology (3) After reviewing traditional philosophical problems concerning mind-body dualism, the course explores the various attempts to formulate a naturalistic theory of human cognition and behavior, including neurophysiological approaches, attempts at computer simulation of behavior, artificial intelligence, and problems of rationality, language, and personal identity. Meets with 60.342. Usually offered alternate falls. *Prerequisite*: one course in philosophy or permission of instructor.

60.645 Seminar on Theories of Human Nature (3) Theories of the nature of human beings and the human condition. This course considers contemporary as well as historical answers to questions such as, Are we free or determined?, rational or irrational?, inherently good or evil?, selfish or altruistic?, spiritual or materialistic?, social or individualistic? Usually offered every fall. *Prerequisite*: one introductory course in philosophy.

60.650 Modern Deductive Logic (3) Introduction to modern symbolic methods in deductive reasoning; the merits of competing systems and the philosophical issues involved. No special knowledge of mathematics required. Meets with 60.350. Usually offered alternate springs. *Prerequisite*: 60.100 or permission of instructor.

60.652 Epistemology (3) One of the following topics: knowledge and belief, memory and the past, meaning and meaningfulness, thought and feeling, and observation in the social sciences. May be repeated for credit but not in the same term; topic must be different. Meets with 60.352. Usually offered alternate springs. *Prerequisite*: two courses in philosophy or permission of instructor.

60.653 Metaphysics (3) One of the following topics: mind and soul, the concept of freedom, analysis and explanation of action, and metaphysics and metaphysics. Meets with 60.353. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite*: two courses in philosophy or permission of instructor.

60.655 Philosophy of Religion (3) Leading contemporary movements in the philosophy of religion. Meets with 60.355. Usually offered alternate falls. *Prerequisite*: two courses in philosophy or permission of instructor.

60.686 Selected Topics in Philosophy (3) Themes posed by nonrational challenges to the major scientific and cultural movements in nineteenth- and twentieth-century thought. Emphasis on the relationships between these developments and their artistic, social, and political counterparts. Approved topics are: the irrational, atheism, the demonic, nihilism, and the absurd; consciousness and alienation. Meets with 60.386. *Prerequisite*: 60.105 or permission of instructor.

60.690 Independent Study Project in Philosophy (1-6)

60.702 Graduate Seminar in Philosophy (3-12) Intensive study of selected problems under individual direction. Multiple registrations of three credit hours each for a maximum of twelve hours are permitted during a semester. Topics: history of philosophy, metaphysics, logic, epistemology, philosophy of science, value theory, philosophy of religion, social philosophy, and Eastern philosophy. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite*: four courses in philosophy and permission of department chair.

60.797 Master's Thesis Seminar (1-6) May be repeated for credit in the same term. Usually offered every term. *Prerequisite:* permission of department chair.

60.799 Doctoral Dissertation Seminar (1-24) May be repeated for credit in the same term. Usually offered every term. *Prerequisite:* permission of department chair.

Religion

Undergraduate Courses

61.105 The Religious Heritage of the West /A 2:1 (3) The contribution of religion to Western civilization. The eastern Mediterranean roots of Western religions, the emergence of Christianity in the Greco-Roman world, and the rise of Islam. The mature religious synthesis of Medieval Europe. Modern secularism's challenge to this tradition. Usually offered every spring. *Note:* not open to students who have taken 61.270 Religious Heritage of the West.

61.150 Introduction to the Old Testament (3) Emphasis on substantive content of the Old Testament. Special attention to historical and cultural background of the text. Usually offered every fall.

61.170 Introduction to the New Testament (3) Literary, historical, and theological study of the New Testament. Particular attention to Jesus, Paul, and the development of the Christian movement. Usually offered every spring.

61.185 Forms of the Sacred: Religions of the East /A 3:1 (3) This course begins with an introduction to the method of studying the history of religions. A brief survey of primal religions and Judaism and Christianity provides a basis for comparative analysis of the major Eastern religions: Hinduism, Buddhism, Chinese religion, Shinto, and Islam. Usually offered every term. *Note:* not open to students who have taken 61.183 Comparative Religion.

61.210 Asian and African Religious Traditions /A 3:2 (3) The religious traditions of South Asia, East Asia, and sub-Saharan Africa. How these religious traditions function as systems of symbols, how they interact with both indigenous religious traditions (in Asia) and external religious traditions (Islam and Christianity), and how they respond to modernization and imperialism. Usually offered every term. *Prerequisite for General Education credit:* 03.110 or 61.185. *Note:* not open to students who have taken 61.305 Philosophies of the East.

61.220 Religious Thought /A 2:2 (3) The study of religion and religion's role in life. Beginning with modern approaches to the study of religion, this course examines religious ways of defining the human situation, the quest for salvation, wholeness, and transcendence, and the problem of speaking about the divine within the terms of modern culture. Usually offered every fall. *Prerequisite for General Education credit:* 07.100 or 61.105. *Note:* not open to students who have taken 61.180 Introduction to Religious Thought.

61.230 Traditional African Thought /A (3) The traditional African experience in areas of life values, approach to natural phenomena, explanation of life events, and cultural art forms; comparison of this African experience with the Western outlook; and the problem of evaluation of cultural standards. Usually offered every fall.

61.231 Judaism and Christianity (3) Basic issues in biblical and post-biblical literature of Judaism and Chris-

tianity, such as nature of covenant, Messiah, kingdom-state, law, and faith. Usually offered every spring.

61.300 Contemporary Religious Thought (3) Major currents in nineteenth- and twentieth-century Jewish and Christian religious thought. The origins of religious existentialism, rise of modern atheism, conflict with natural and social sciences, influence of historical-critical method, development of religious liberalism, and the twentieth-century reaction of neo-orthodoxy and "crisis theology." Usually offered alternate falls.

61.333 Peace and Change: A Personal and Social Equation (3) Investigation of peace literature (e.g. Lao-tzu, Gandhi, Thoreau, and King), emphasizing programmatic results for individual and social change. Experimentation in small groups. Usually offered alternate springs.

61.342 Freud and Culture (3) Classical psychoanalytic theory and its influence on twentieth-century culture in such fields as anthropology, sociology, religion, and literature. Usually offered alternate springs.

61.360 Jesus: Prophet, Miracle Worker, Madman? (3) An attempt to develop method by which to uncover the life and teachings of the historical Jesus and to compare these findings with other early and recent Jewish and Christian portraits of Jesus. Usually offered alternate falls.

61.361 Paul, the Jew, and Earliest Christianity (3) Analysis of the life and literature of this early Christian with emphasis on his relation both to Pharisaic Judaism and to Hellenistic thought. Modern interpretations are also read. Usually offered alternate springs.

61.370 Islam (3) Hundreds of millions of people adhere to Islam, sometimes described as the world's fastest growing religion. Students examine historical origins, Prophet Muhammad, Quran, and other formative elements underlying the modern Muslim situation. Usually offered alternate falls.

61.371 The Saint: A Systematic Approach (3) A striking part of religious history turns on the spiritual experience of gifted religious specialists, sometimes called saints. Discussion and comparison of the phenomena and spirituality of sainthood to clarify its nature. Usually offered alternate falls.

61.373 Hinduism (3) This amazingly vital, age-old religion has more than once extended its influence as a religion of truly worldwide significance. Origins, early literature, and main expressions of Hinduism (including Yoga, Bhakti, and cult of the Divine Mother) are presented. Students develop topics of their own interest. Usually offered every spring.

61.381 Methodology for the Study of Religion (3) Controversialists argue that either there is or is not something unique about religion, inexplicable in other terms. Methodologies drawn from history of religion itself and from various social sciences (sociology, anthropology, and psychoanalysis) are examined. By exploring both sides of the issue, students develop techniques for study in history of religions. Usually offered alternate falls.

61.386 Topics in Religious Discussion (3) Examination of important problems, thinkers, and issues in classical and contemporary religious thought. Recent offerings have included: Thought of Reinhold Niebuhr, Philosophical Theology of Paul Tillich, Thought of Rudolf Bultmann, God Talk, Problem of God, Social Scientific Study of Religion in Small Group Process, New Religious Movements, Occult World, Johannine Literature, The Catholic Tradition,

Prophets and Politics, The Gospels, and Varieties of Early Christianity and Their Modern Counterparts. May be repeated for credit but not in the same term; topic must be different. Usually offered every year.

61.390 Independent Reading Course in Religion (1-6)

61.490 Independent Study Project in Religion (1-6)

61.496 Honors Project in Religion (3-6) Usually offered every term.

Graduate and Advanced Undergraduate Course

61.590 Independent Reading Course in Religion (1-6)

Graduate Courses

61.690 Independent Study Project in Religion (1-6)

61.693, 61.694 Graduate Seminar in Religious Studies (3-12), (3-12) Intensive study of selected problems in religious thought. With faculty permission, student attends a class at the 300 level or above. Student also meets individually with professor for additional tutorial work. Register for 61.694 if graduate degree is in religious studies; 61.693 is for graduate students in other fields who wish to do interdisciplinary work in religious studies. Usually offered every term. *Prerequisite:* departmental permission.

61.797 Master's Thesis Seminar (1-6) Usually offered every term. *Prerequisite:* permission of department chair.

Sociology

Undergraduate Courses

65.100 American Society /S 4:1 (3) American pluralism and the variety of social arrangements and relationships found in American society. The emphasis is on how society is stratified; how organizations and institutions influence the way Americans think, talk, feel, and act; and how different groups (racial and ethnic) and divisions (gender and class) within society have differential access to power and privilege. Usually offered every term. *Note:* not open to students who have taken 65.302 American Society or 65.200 Introduction to Sociology.

65.110 Views from the Third World /S 3:1 (3) Introduction to the sociology of the Third World through study of the works of its own intellectuals and political leaders. Reflections on Third World societal structures and explanations of dilemmas of development and of strategies for overcoming these dilemmas. The course links texts to their Third World context. Usually offered every term.

65.201 Marriage and Family Living (3) Recent changes in the American family; modern dating, mate-selection, engagement, early marital adjustment, communication, money, working wife, sex, and in-law problems. Not open to first-semester freshmen. Usually offered every term.

65.204 Jobs and Careers (3) How recent changes in the economy are creating new problems and opportunities. Topics include unemployment and the job market, work satisfaction and alienation, equal opportunity, bureaucratization, deprofessionalization, and unions. Designed to help students understand the work situations they may face. Usually offered every term.

65.205 The Family /S 4:2 (3) The family as a social institution in a changing society. Social inequalities of

class, race, ethnicity, and gender as key factors in shaping diverse forms and experiences in family life. Theoretical and actual alternatives to family patterns as well as the future of the American family. Usually offered every term. *Prerequisite for General Education credit:* 03.150 or 57.105. *Note:* not open to students who have taken 65.382 The Family.

65.210 Inequality and Stratification /S 4:2 (3) Structured inequality in society in socioeconomic, racial, and gender terms. How the individual's life and experiences are circumscribed and structured by his or her position in the social stratification system. How and why stratification systems emerge and are reproduced and their alternatives. Usually offered every term. *Prerequisite for General Education credit:* 65.100 or 53.110. *Note:* not open to students who have taken 65.350 Social Inequality.

65.215 The Rise of Critical Social Thought /S 2:2 (3) Nineteenth-century issues about social science as a critical vision of society, imagined social possibilities and their comparison to existing social institutions. Secondary themes are individual development, community, and the limits of social-science knowledge as a guide to social planning and social action. Usually offered every term. *Prerequisite for General Education credit:* 60.105 or 76.105.

65.220 Work in America /S 4:2 (3) The basic concepts and theories of work, how work has been conceptualized and categorized, the development of American forms of work organizations, and the impact of work on gender, race, and class. The sociological concepts of alienation, stress, and role conflict are used to explore the effects of work on the individual and society. Usually offered every term. *Prerequisite for General Education credit:* 19.100 or 54.105 or 65.100. *Note:* not open to students who have taken 65.360 Sociology of Work.

65.225 Contemporary Arab World /S 3:2 (3) The social, economic, and political structure of the Arab World with special emphasis on the impact on this region of the rise and fall of oil revenues. A macrosociological approach places the region in the global political economy and introduces students to its problematics and historical-cultural specificity. Usually offered every spring. *Prerequisite for General Education credit:* 33.120 or 65.110.

65.230 Conflict and Change in Latin America /S 3:2 (3) An introduction to Latin America through the lens of sociology. Latin American forms of economic and political organization and the societal conflicts over them. Alternative Latin American models for development and change; who has advocated each model and why. Usually offered every spring. *Prerequisite for General Education credit:* 65.110 or 19.110.

65.280 Sociological Examination of Italy since World War II (3) Examination of significant facets of Italian society in the period since World War II with a comparison of Italian and American experience. Offered only in Rome. Usually offered every term.

65.301 Social Problems (3) Theoretical and sociological perspectives on current social problems; for example, medicine, education, racism, terrorism, welfare, sexism, mental illness, population, energy, pollution, alienation, and war. Social problems are examined at four levels: individual, group and community, national, and worldwide. Usually offered every spring and summer. *Prerequisite:* 65.100.

65.303 Deviance and Social Control (3) Analysis of the relationship of social control to social inequality and social

change, with deviance studied in this context. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.320 Introduction to Social Research (3) An introduction to the major research methods in social science, their links to theory and practice, and their use in research projects. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.330 Social Change and Social Conflict (3) Analysis of the causes, processes, and consequences of social change. Examination and analysis of theories of social change. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.331 Political Sociology (3) Analysis of the contributions of classical sociological writers to theory and research in politics. Methods and techniques of examining political behavior and institutions. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

65.332 Law and Society (3) Study of the relationship between social reality and law. Analysis of contradictions between legal norms and social structure in the process of change. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

65.333 Capitalism, Socialism, Communism (3) Analysis of contemporary societies. Comparative study of social conditions, institutions, values, and relations between societies. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

65.340 Social Interaction (3) Sociological perspective of the relationship between individuals and groups. Socialization roles in small and complex organizations, mass communication, and social movements. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.342 Social Psychology of Intergroup Tensions (3) Intergroup prejudice and its relation to other aspects of personality and social behavior. Recent research on the determinants of intergroup attitudes. Techniques for the reduction of intergroup tension. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

65.351 Race and Ethnic Relations (3) A focus on what happens when divergent types of persons effect social contact. Racial, ethnic, tribal, national, and religious interactions throughout the world. The processes include conflict, amalgamation, acculturation, assimilation, prejudice, and discrimination. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.352 Women and Society (3) Location and description of women in population. The nature and extent of prejudice and discrimination against women. The significance of female equality to the social order. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

65.380 Religion and Society (3) Concepts, methods, and techniques in the sociological analysis of religion. Historical, comparative, and functional approaches to religion. Emphasis on European and American Christianity. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

65.381 Social Aspects of Mass Communications (3) An introduction to mass-media research from a sociological perspective. Special attention to current empirical research on public opinion, the power of the communications media, and the effects of the media on adults and

children. Usually offered alternate springs. *Prerequisite:* 65.100 or permission of instructor.

65.387 Urban Sociology (3) Analysis of contemporary life in cities. Study of development, theories, and problems of urban life. Comparative and research perspectives. Usually offered every spring. *Prerequisite:* 65.100 or permission of instructor.

65.389 Environment and Society (3) Exploration into the relationship between social groups and the physical environment. Focus on the actions and reactions of public and policy groups in identifying and coping with natural and technological problems. Analysis of specific socio-environmental problems and the roles and methods of social scientists and others in social-impact assessment and social change. *Prerequisite:* 65.100 or permission of instructor.

65.390 Independent Reading Course in Sociology (1-6)

65.410 Classical Sociological Theory (3) Historical background of theories, concepts, and methods of sociology. The emergence and characteristics of the most significant sociological systems. Usually offered every fall. *Prerequisite:* 65.100 or permission of instructor.

65.411 Contemporary Sociological Theory (3) An analysis of modern sociological theories and schools of thought. Logic and procedures of theory construction. Usually offered every spring. *Prerequisite:* 65.410.

65.422 Survey Research Methods (3) An overview of survey research advantages and limitations. Practical experience in all phases: design, sampling, questionnaire construction, interviewing, field-work organization, data-file creation, computerized data analysis, and report writing. Offered irregularly. *Prerequisite:* 65.320 or permission of instructor.

65.423 Social Policy Research (3) An overview of major issues in social-policy program evaluation. Types of evaluations and basic research methods appropriate to each. Practical experience in designing and carrying out both qualitative and quantitative evaluations of social programs. Offered irregularly. *Prerequisite:* 65.320 or permission of instructor.

65.490 Independent Study Project in Sociology (1-6)

65.491 Internship (3-6) Internship in social service, social change, and social research agencies. Internships in social research agencies require completion of 65.320. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* 65.100 or permission of instructor.

65.498, 65.499 Honors: Senior Year (1-6)

Graduate and Advanced Undergraduate Courses

65.530 Macrosociology (3) Historical and comparative analysis of whole societies and their structures, relations between societies, and world systems. Usually offered every fall. *Prerequisite:* graduate standing or three courses in sociology.

65.531 Regional Studies in Social Change (3) Topical courses examining social change in different parts of the world as a cause and consequence of economic development. Emphasis on the social effects of governmental or corporate policies. Examples include Latin America and the Middle East. May be repeated for credit in the same

term; topic must be different. *Prerequisite:* graduate standing or three courses in sociology.

65.540 Social Psychology: Sociological Perspectives (3) The relationships between person and group: concepts, theories, and methods. Interaction of social-structure variables and personality development, adult socialization and aging, collective behavior, and intergroup relations. Usually offered every spring. *Prerequisite:* graduate standing or three courses in sociology.

65.550 Studies in Social Stratification and Mobility (3) Class, status, and power relations in society. Caste, estate, social class, and social mobility. Theories and research findings of current importance. Usually offered every spring. *Prerequisite:* graduate standing or three courses in sociology.

65.560 Work: Sociological Perspectives (3) The relationships between social structure, occupational structure, and the kinds of work available. The organization of work and the way people carry out their work. Usually offered every fall. *Prerequisite:* graduate standing or three courses in sociology.

65.590 Independent Reading Course in Sociology (1-6)

Graduate Courses

65.610 History of Sociological Theory (3) Comparative study of major theorists in the nineteenth and twentieth centuries. Usually offered every fall.

65.611 Modern Sociological Theory (3) An analysis of modern sociological theories and major schools of social thought. Problems of theory construction. Usually offered every spring. *Prerequisite:* 65.610.

65.620, 65.621 Social Research I, II (3), (3) Conceptual and procedural aspects of research, with some accent on quantitative methods. Formulation and specification of research questions, development of research designs, and translation of plans into action (measurement, data collection, data processing, and preparation of research reports). 65.620 usually offered every fall; 65.621 usually offered every spring.

65.630 Conflict and Change: Macrosociological Perspectives (3) Analysis of socio-political processes in the development of national, regional, and world systems. The formation of social movements in this context. Usually offered every spring. *Prerequisite:* 65.530 or permission of instructor.

65.640 Theories of Social Psychology (3) Critical analysis of selected theories dealing with human nature, personality, group influences, and social interaction. Consideration of selected theoretical and methodological approaches including symbolic interaction, behaviorism, and ethnomethodology. Usually offered every spring. *Prerequisite:* 65.540 or permission of instructor.

65.650 Class and Stratum: Organization and Consciousness (3) Comparative analysis of the formation, organization, conflict, and consciousness of classes and strata. Includes analysis of associated systems of belief. Usually offered every fall. *Prerequisite:* 65.550 or permission of instructor.

65.660 Sociology of Work and Organizations (3) Work and workers in historical and comparative perspective. Workers' organizations and consciousness. Current trends

and issues. Usually offered every spring. *Prerequisite:* 65.560 or permission of instructor.

65.690 Independent Study Project in Sociology (1-6)

65.691 Internship (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* graduate standing.

65.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

65.710 Seminar in Sociological Theory (3) Intensive study of selected areas or schools of sociological thought. Emphasis on the use of primary source materials. May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of instructor.

65.720 Seminar in Social Research (3) Advanced study in selected methodological approaches and techniques in social research. May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of instructor.

65.730 Seminar in Macrosociology (3) Theoretical and methodological problems in the field. Preparation of related research reports. May be repeated for credit in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* permission of instructor.

65.740 Seminar in Social Psychology (3) Recent theoretical and methodological advances in social psychology. Critical analysis of concepts and research. May be repeated for credit in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* permission of instructor.

65.750 Seminar in Social Stratification (3) Exploration and criticism of theoretical and methodological aspects of the field. May be repeated for credit in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* permission of instructor.

65.795 Master's Research: Independent Study in Sociology (3) Directed research is done under the supervision of a faculty member selected by the student. Preparation of a substantial research report on a topic related to the student's field of concentration. *Prerequisite:* permission of instructor.

65.797 Master's Thesis Independent Study (1-6)

65.799 Doctoral Dissertation Independent Study (1-12)

Performing Arts: Music, Theatre, Dance, and Arts Management

Undergraduate Courses

67.102 Modern Dance I /A (3) Introduction to beginning modern dance techniques. In addition to focusing on correct alignment and kinesthetic awareness, the course includes videotapes, readings, and attendance at live dance performances. With permission of instructor, may be repeated for credit; different repertoire is required. Usually offered every term.

67.103 Beginning Jazz Dance /A (3) This course is designed as an introduction to jazz dance techniques. In addition to focusing on correct alignment and precise body articulation in the jazz idiom, the course includes video-

tapes, readings, class observations, and attendance at live dance performances. Usually offered every term. May be repeated for credit, but not within the same term; content/topic must be different.

67.104 Beginning Ballet (3) Development of technical skills in classical ballet vocabulary. With permission of instructor may be repeated for credit; different repertoire is assumed. Usually offered every term.

67.110 Understanding Music /A 1:1 (3) An introduction to musical language through listening and comprehension. The fundamentals of acoustics, melody, harmony, form, texture, and color in a wide range of music from ancient and global music to European concert music. Includes listening and concert-attendance requirements. Usually offered every term. *Note:* not open to those who have taken 67.120 Music Appreciation I.

67.115 Theatre: Principles, Plays, and Performance /A 1:1 (3) An overview of the principles of drama from the ancient Greeks to contemporary society. The class draws on theatre history and social context, the reading of great literature, critical analyses, and artistic exploration to culminate in the experience which is the essential element of the art itself—performance. Usually offered every term.

67.122 The Evolution of Jazz and Rock /A (3) Cultural sources and growth of divergent stylistic characteristics of jazz and rock through the past hundred years. Usually offered every term.

67.123 Selected Topics in Music (3) Study of an area such as orchestral, chamber, opera, American, folk, and twentieth-century music. Previous offerings have included: Music, Performance, and Society; Beethoven/The Hero Individual in Music. May be repeated for credit in the same term; topic must be different. Usually offered every term.

67.124 Music Theory I: Basic Harmony and Analysis (3) The triad and seventh chords with their inversions, harmonic function and progression, cadences, four-part harmonization, simple modulation using secondary dominants, and pivot chords. Usually offered every fall. *Prerequisite:* ability to follow a musical score.

67.125 Music Theory II: Continuing Harmony (3) Classical harmonic structure including chromatically altered chords. Consideration of form by analysis and composition. Usually offered every spring. *Prerequisite:* 67.124 or equivalent.

67.126 Music Theory for Nonmajors /A (3) A study of rhythm, modes, scales, intervals, chords, and basic musical forms. Usually offered every term.

67.127 Musicianship I (3) Reading, hearing, playing, and singing, and conducting of simple diatonic musical materials. Usually offered every fall.

67.128 Musicianship II (3) The second semester of a comprehensive program of music reading, singing, keyboard, and conducting. Usually offered every spring. *Prerequisite:* 67.127

67.142 University Chorale (1) Prepares and presents major works of choral literature. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

67.143 University Singers (2) Small, highly select choral ensemble which presents both sacred and secular pro-

grams. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

67.144 University Orchestra (1) Concerts, sight-reading, and study of selected compositions. Open to all students, faculty, and staff. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.145 Instrumental Ensembles (1) String, mixed, and wind ensembles, and jazz workshop. Open to students, faculty, and staff. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.155 Oral Interpretation (3) Analysis, interpretation, and practice in expressive reading of literature to develop ability to share literature with an audience. Usually offered every spring.

67.160 On Stage! Dance—Music—Theatre /A 1:1 (3) A stage performance of a work of art is a highly controlled presentation using the artistic elements of space, movement, time, sound, and color. This study explores how these elements can be used to bring about audience reactions to dance, music, and theatre. Usually offered once a year.

67.181 Stage Make-Up (1) Basics of stage make-up: make-up material, make-up lists, color charts, facial anatomy, and corrective make-up. Usually offered every spring.

67.200 Dance and Society /A 1:2 (3) In this course, students learn about the cultural importance of dance throughout history, including its ritual, social, and theatrical functions. Students discover the diverse ways and cultural contexts in which people express fundamental experiences and emotions through dance. Usually offered every spring. *Prerequisite for General Education credit:* 67.160 or 67.115.

67.202 Modern Dance II (3) Continuation of 67.102. With permission of instructor may be repeated for credit within the same term; different repertoire is required. Usually offered every term. *Prerequisite:* 67.102 or permission of instructor.

67.204 Intermediate Ballet (3) Development of technical skills and performance ability in classical ballet vocabulary. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* 67.104 or permission of instructor.

67.205 Masterpieces of Music /A 1:2 (3) Listening and analysis of masterpieces of Western music from the Middle Ages to the present day. The course includes a variety of genres and styles with background study into the historical era and particular composers. Usually offered every spring. *Prerequisite for General Education credit:* 67.110. *Note:* not open to those who have taken 67.121 Music Appreciation II.

67.210 The Great Composers: Lives and Music /A 1:2 (3) The place of music in society is reflected in the lives and work of a series of major composers who represent contrasting eras, nationalities, musical styles, and aesthetic goals. Students examine the social history of music through listening, analysis, reading, and research into the fascinating people who have made music. Usually offered

every fall. *Prerequisite for General Education credit:* 67.110 or 07.105.

67.215 Opera on Stage and Film /A 1:2 (3) Classics of operatic repertoire. Through readings, viewing videotapes, and attending live productions, the students confront the literary sources, dramatic and musical structures, cultural forces, and the social, political, and historical environment which shaped the works and gave them life. Usually offered every spring. *Prerequisite for General Education credit:* 67.110 or 23.135.

67.220 Reflections of American Society on Stage and Screen /A 1:2 (3) Artistic and cultural developments and societal phenomena as reflected in stage, film, and television performance in twentieth-century United States. By reading the written versions and viewing the productions, students investigate and analyze the relationships between the creative artists, their produced works, and the societal contexts within which they originated. Usually offered every spring. *Prerequisite for General Education credit:* 17.105 or 23.135.

67.227 Musicianship III (3) The continuation of musicianship into the second year with addition of chromatic materials. Usually offered every fall. *Prerequisite:* 67.128

67.228 Musicianship IV (3) The continuation of musicianship training with advanced materials and singing, reading, and keyboard. Conducting of these. Usually offered every spring. *Prerequisite:* 67.227.

67.251 Fundamentals of Acting I (3) Beginning performance skills for actors, including elementary scene study, stage movement, and role analysis. Usually offered every term.

67.252 Fundamentals of Acting II (3) A continuation of study in beginning performance skills for actors; includes scene study, textual analysis, and character exploration. Usually offered every term. *Prerequisite:* 67.251 or permission of instructor.

67.260 Principles of Production (4) Techniques of stagecraft including scenery, properties, lighting, and sound, along with theatrical production philosophy and organization and an overview of the process of design. Mandatory lab sessions provide experience in scenic construction, basic electricity and stage lighting, and live-performance support. Usually offered every fall.

67.265 Theatre Practicum (1) Provides the student with practical experience in designated areas of technical theatre: set construction and lighting, costuming, public relations, and stage management. May be repeated for credit but not within the same term; different topic is required. Usually offered every term.

67.302 Modern Dance III (3) Continuation of 67.202. Meets with 67.602. With permission of instructor may be repeated for credit; different repertoire is required. Usually offered every term. *Prerequisite:* 67.202 or permission of instructor.

67.305 History and Philosophy of Dance I (3) The evolution of Western theatrical dance, with emphasis on the sixteenth through the nineteenth centuries. Usually offered every spring.

67.306 History and Philosophy of Dance II (3) A chronological survey of dance in the twentieth century. Writings and videos of contemporary dance authorities and artists are used as source materials. Usually offered every fall. *Prerequisite:* 67.305.

67.320 Music Theory III: Modal Counterpoint (3) Investigation of monodic and contrapuntal writing from Gregorian chant through Palestrina by analysis and composition. Usually offered alternate falls. *Prerequisite:* 67.126 or equivalent.

67.321 Music Theory IV: Tonal Counterpoint (3) Contrapuntal writing and analysis of the invention, chorale-prelude, fugue, and other imitative forms. Usually offered alternate springs. *Prerequisite:* 67.320.

67.322 History of Music I (3) Music in Western civilization from ancient times to the seventeenth century, including a brief survey of primitive and oriental music. Illustrated with slides and recordings. Usually offered alternate falls. *Prerequisite:* ability to follow a musical score.

67.323 History of Music II (3) Music in Western civilization from the eighteenth century to the present. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* ability to follow a musical score.

67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3) Examination of the structural principles of tonal music from the baroque through the romantic periods. Usually offered alternate falls. *Prerequisite:* 67.125.

67.325 Music Theory VI: The Twentieth Century (3) Diverse styles and compositional techniques of the twentieth century are examined through analysis. Usually offered alternate springs. *Prerequisite:* 67.324.

67.326 Orchestration (3) Scoring for various chamber ensembles and full orchestra. Analysis of the orchestration of composers from the classical era to the present. Usually offered alternate falls. *Prerequisite:* 67.125.

67.350 Scene Study (3) An intermediate-level acting class focusing on character analysis within the scene and within the play. Class discussion, instructor critique, improvisation, and vocal and physical warm-up are emphasized. Usually offered every term. *Prerequisite:* 67.252.

67.351 Movement for Actors (3) Continuation of 67.350 with a focus on movement improvisation and the exploration of physical actions as a means of creating character. Usually offered every spring. *Prerequisite:* 67.350 or permission of instructor.

67.352 Beginning Directing (3) A studio course providing training in the theory and practice of blocking and play analysis for the beginning director. Arena, proscenium, and environmental staging are considered. Usually offered every term. *Prerequisite:* 67.115, 67.251, 67.260.

67.355 Speech and Voice for the Theatre (3) For theatre majors concerned with developing effective techniques of voice and diction. Usually offered every spring.

67.361 Costume Design (3) Study of the history and design of theatrical costumes. *Prerequisite:* 67.265 Theatre Practicum: Costume Shop.

67.362 Lighting Design (3) Lighting technology, electrical theory, and the design of lighting as an integral part of the performing arts. Usually offered every spring. *Prerequisite:* 67.260 or permission of instructor.

67.363 Scene Design (3) Fundamentals of design for the performing arts; preparation of sketches and drawings based on the principal styles and periods. *Prerequisite:* 67.260.

67.365 Theatre History I (3) The historical pattern of drama as an art form and the social function of the theatre

from its earliest appearance through the Renaissance. Usually offered every fall.

67.366 Theatre History II /A (3) The historical pattern of drama as an art form and the social function of the theatre from the Baroque to the present. Usually offered every spring. May be taken independently of 67.365.

67.367 Modern American Theatre and Drama (3) American drama from O'Neill to the present. Usually offered every fall.

67.390 Independent Reading Course in Performing Arts (1-6)

67.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication.

67.398, 67.399 Honors, Junior Year (1-6), (1-6) May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

67.400 Methods of Teaching Dance (3) Understanding the value of dance education, and developing approaches to teaching dance at various age levels. Meets with 67.600. Usually offered every spring.

67.404 Advanced Ballet (3) Advanced ballet exercises and movement sequences to increase technical skill and personal expression. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* 67.204 or permission of instructor.

67.410 Workshop in Dance Production (2-3) Develops techniques and provides experience in various phases of dance production. Repertory and improvisation. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.411 Composition of Dance I (3) Introduction to the vocabulary and techniques of choreography. Students create their own choreographies. May be repeated for credit but not within the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of instructor.

67.412 Composition of Dance II (3) Continuation of 67.411. May be repeated for credit but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* 67.411 or permission of instructor.

67.450 Rotating Topics in Theatre (3) Designed for advanced undergraduate students who wish to continue theatre studies. Emphasis on approaches to performance material and preparation techniques for improvisation, advanced acting styles, children's theatre, creative dramatics, Shakespeare, stage management, music theatre, and other selected topics. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

67.490 Independent Study Project in Performing Arts (1-6)

67.491 Performing Arts: Internship (1-6) Usually offered every term.

67.498, 67.499 Honors, Senior Year (1-6), (1-6) May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

Graduate and Advanced Undergraduate Courses

67.506 The Moving Body (3) The practical application of anatomy and kinesiology to performance work in dance, music, and theatre. Warm-up exercises, injury prevention, sports, and everyday activities are also covered. Usually offered every term. *Prerequisite:* permission of instructor.

67.507 Principles of Movement (3) Principles of Movement is a system of analysis for describing and understanding the qualitative aspects of movement. Students learn to expand their movement vocabulary, both spatially and dynamically, and to develop their verbal skills in observing and describing dance. Usually offered every spring.

67.520 Studies in Music Literature (3) Survey of an area such as chamber, orchestral, keyboard, or choral music. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. *Prerequisite:* permission of instructor.

67.524 Studies in Music Theory (3) In-depth studies in areas of theoretical concern, such as fugue, advanced counterpoint, and serial techniques. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 67.325 or equivalent.

67.528 Diction for Singers (2) Pronunciation practices in languages relevant to vocal literature: French, Italian, and German.

67.529 Medieval Music (3) Advanced study of European music from the early Christian era to the beginning of the fifteenth century. Emphasis on stylistic and notational problems, primary sources, and bibliography. Illustrated with slides and recordings. Written paper and taped listening assignments. Usually offered alternate falls. *Prerequisite:* 67.322 or equivalent.

67.530 Renaissance Music (3) Comprehensive survey of European music of the fifteenth and sixteenth centuries. Emphasis on stylistic innovations, primary sources, and bibliography. Usually offered alternate springs. *Prerequisite:* 67.322 or equivalent.

67.531 Music of the Baroque Era (3) Advanced study of European music of the seventeenth and early eighteenth centuries. Comprehensive coverage of styles and forms, illustrated with slides and recordings. Usually offered alternate falls. *Prerequisite:* 67.322 or equivalent.

67.532 Music of the Classical Era (3) Growth of new idioms and forms from the early eighteenth to the early nineteenth century. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* 67.323 or equivalent.

67.533 Music of the Romantic Period (3) Historical and cultural background; intensive study of the composers and works of the period. Emphasis on individual style, nationalism, and program music. *Prerequisite:* 67.323 or equivalent.

67.534 Music of the Twentieth Century (3) Chronological survey of musical styles and ideas from 1900 to the present, with the emphasis on a few selected composers. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* 67.323 or equivalent.

67.535 Studies in Music History (3) Concentration in an area such as opera, non-Western music, or performance practices. May be repeated for credit but not in the same term; topic must be different.

67.536 Research Methodology in Music (3) Methods and tools of research. Class project, oral report, and paper. Transcription of vocal notations and instrumental tabatures. Survey of scholarly editions, periodicals, and reference works in the major European languages. *Prerequisite:* 67.322, 67.323, or equivalent.

67.537 Music: Analytical Studies (3) A study of analytical techniques applied to a representative sample of music from the medieval through contemporary periods. Usually offered alternate falls. *Prerequisite:* 67.325.

67.543 Pedagogy I (2) Seminar to explore concepts of vocal and instrumental performance and their application to teaching in a private studio. Usually offered every fall. *Prerequisite:* permission of instructor.

67.544 Pedagogy II (2) Survey of literature and teaching of instrumental and vocal techniques. Usually offered every spring.

67.545 Chamber Ensembles (1) Performance in particular areas of music literature by small, select groups, including Opera Workshop and Collegium Musicum. With permission of instructor may be repeated for credit, but not in the same term. Usually offered every term. *Prerequisite:* audition.

67.546 Internship in Music (3) Practical professional experience for selected students who work with cooperating agency directly in their professional field under faculty supervision. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of department chair.

67.547 Pedagogy III (3) An in-depth investigation of pedagogical materials relating to the piano and voice, and critical analysis of performance and performing materials. Usually offered alternate falls. *Prerequisite:* 67.543 and 67.544.

67.554 Creativity and the Creative Process (3) Exploration of the concepts of creativity and the creative process, identification of individual creative impulses and how to channel them. Usually offered every spring.

67.555 TV Performance I (3) Trains students in the crafts necessary to act in the special framework of television; includes work in lighting, make-up, movement, and single and multiple camera acting techniques. Usually offered every fall. *Prerequisite:* permission of instructor.

67.557 Creative Writers Performance Laboratory (3) An exploratory course for writers, actors, directors for study and development of original scripted works and the process inherent in the creation of a dramatic piece. Attention given to special acting, directing, writing techniques needed to realize a polished performance of students' original works. *Prerequisite:* some experience in writing, acting, or directing, or permission of instructor. Usually offered every spring.

67.566 Seminar in Theatre History (3) Intensive study of topics in the broad range of theatre history through discussion, oral presentation, and written assignments. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* permission of instructor.

67.569 Seminar in Theatre (3) Problems in theatrical presentation and theatre history. Topics are announced the semester the course is offered. May be repeated for credit but not in the same term; topic must be different.

67.570 Survey of Arts Management (3) Study of various facets of management in the arts: contracts, logistics,

organization, etc. Usually offered every fall. *Prerequisite:* permission of instructor.

67.571 Promotion and Public Relations for Performing Arts (3) Examination of techniques of audience development for arts institutions. Basic promotion and public relations skills. Usually offered every spring. *Prerequisite:* permission of instructor.

67.585 Creative Theories and Criticism in Performing Arts (3) Aesthetic and critical constructs which apply to the interrelationship between the performing arts and criticism of them. Usually offered every spring. *Prerequisite:* permission of instructor for those other than majors.

67.590 Independent Reading Course in Performing Arts (1-6)

Graduate Courses

67.602 Modern Dance III (3) Continuation of 67.202. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* 67.202 or permission of instructor.

67.604 Advanced Ballet (3) Advanced ballet exercises and movement sequences to increase technical skill and personal expression. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.605 History and Philosophy of Dance I (3) The evolution of Western theatrical dance, with emphasis on the sixteenth through the nineteenth centuries. Usually offered every spring.

67.606 History and Philosophy of Dance II (3) A chronological survey of dance in the twentieth century; writings and videos of contemporary dance authorities and artists are used as source materials. Usually offered every fall. *Prerequisite:* 67.605.

67.610 Workshop in Dance Production (2-3) Develops techniques and provides experience in various phases of dance production, repertoire and improvisation. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.611 Composition of Dance I (3) Introduction to the vocabulary and techniques of choreography. Students create their own choreographies. May be repeated for credit but not within the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of instructor.

67.612 Composition of Dance II (3) Continuation of 67.611. May be repeated for credit but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* permission of instructor.

67.650 Rotating Topics in Theatre (3) Designed for advanced graduate students who wish to continue theatre studies. Emphasis on approaches to performance material and preparation techniques in improvisation, advanced acting styles, children's theatre, Shakespeare, stage management, music theatre, and other selected topics. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

67.665 Theatre History I (3) The historical pattern of drama as an art form and the social function of the theatre from its earliest appearance through the Renaissance. Usually offered every fall.

67.666 Theatre History II (3) The historical pattern of drama as an art form and the social function of the theatre from the Baroque to the present. Usually offered every spring. May be taken independently of 67.665.

67.672 Case Studies in Performing Arts Management (3) An exploration of major areas of arts management; grants and fund raising; box office, income, and general administration; and arts in education. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 67.570 or permission of instructor.

67.673 Fund-Raising Management for the Arts (3) Examines the factors most conducive to financial health of institutions and ways of obtaining and maintaining funding. Usually offered every fall. *Prerequisite:* 67.570 or permission of instructor.

67.690 Independent Study Project in Performing Arts (1-6)

67.691 Performing Arts: Internship (1-6) Usually offered every term.

67.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

67.749 Research Performance: Lecture Recital (3-6) Research topics for M.A. candidates in music performance who choose to present a lecture-recital instead of a thesis. Work includes intensive instrumental or vocal research in lecture topic area. May not be taken before the M.A. recital requirement has been completed. Must be under the supervision of a full-time faculty adviser. Usually offered every term. *Prerequisite:* permission of department chair.

67.797 Master's Thesis Seminar (1-6) Usually offered every term.

67.798 Nonthesis Option Seminar (3-6) Usually offered every term.

Applied Music

Undergraduate Courses

68.100 Class Instrumental Study (1) Beginning study in an announced area (piano, guitar, recorder, various orchestral brass, woodwind, string, and percussion instruments). May be repeated for credit on another instrument or in the case of piano or guitar for a second semester at a more advanced level. Prepares the beginning student for private study. Usually offered every term.

68.101 Class Vocal Study (1) Basic principles of singing. May be repeated for a second semester at a more advanced level. Prepares the beginning student for private study, for more effective choral singing, etc. Usually offered every term.

68.121 Private Instrumental or Vocal Study (1) May be repeated for credit with permission of instructor; different repertoire is assumed. Usually offered every term. *Prerequisites:* 68.100 for instruments, 68.101 for voice, or permission of instructor.

68.122 Private Instrumental or Vocal Study (2) With permission of instructor may be repeated for credit, but

not in the same term; different repertoire is assumed. Usually offered every term.

68.334 Private Instrumental or Vocal Study (4) Junior performance honors. Full recital required. Usually offered every term. *Prerequisite:* audition and permission of department chair.

68.434 Private Instrumental or Vocal Study (4) Full recital required. Senior performance honors. Usually offered every term. *Prerequisite:* audition and permission of department chair.

68.444 Music Composition (3) Class or individually supervised practice in writing short compositions in specified small forms. Assignments adapted to needs and talents of students. Usually offered every term. May be repeated for credit. *Prerequisite:* 67.321 or permission of instructor.

Graduate and Advanced Undergraduate Courses

68.531 Private Instrumental or Vocal Study (1) Directed at the nonperformance major. Admission predicated on completion of second year of undergraduate applied music major requirements and audition. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term.

68.532 Private Instrumental or Vocal Study (2) Directed at the nonperformance major. Admission predicated on completion of second year of undergraduate applied music major requirements and audition. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term.

68.534 Studio Accompanying (2) Provides piano students with practical studio experience with singers and instrumentalists; includes two supervised hours (lessons) and four preparation hours per week. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

Graduate Courses

68.791 Private Instrumental or Vocal Study (1) May be repeated up to six hours by a master's degree candidate in performance. Others limited to four hours. Usually offered every term. *Prerequisite:* written permission of department.

68.792 Private Instrumental or Vocal Study (2) May be repeated up to six hours by a master's degree candidate in performance. Others limited to four hours. Usually offered every term. *Prerequisite:* written permission of the department.

68.794 Advanced Music Composition (3) Guidance in writing large forms and in experimental idioms. Assignments adapted to individual needs, interests, and talents. May be repeated for credit but not in the same term. Usually offered every term. *Prerequisite:* two semesters of 68.444 or permission of instructor.

Community Studies

Undergraduate Courses

71.101 Communications I (3) Diagnoses students' problems in written expression; improves skills in critical

reading and expository writing; introduces language psychology. Readings include patterned essays, stories, and poems. Students write a number of essays. Fulfills university English requirement 23.100. Usually offered every term.

71.102 Communications II (3) Continuation of 71.101. Continues improvement of reading and writing skills along with application of language psychology to inner-city experiences. Readings include a novel and shorter works. Writing assignments include a research paper, a number of essays, and some creative writing. Completes the university's English requirement. Usually offered every term. *Prerequisite:* 71.101.

71.104 Critical Reading and Thinking (3) Examines what really happens between an author and reader. Students closely analyze a number of essays and several books. Usually offered every term.

71.108 Introduction to the Social Sciences (3) Explores the social sciences and their application to specific problems. Issue-oriented, interdisciplinary course involving psychology, economics, and sociology. Usually offered every term.

71.390 Independent Reading Course in Community Studies (1-6)

71.490 Independent Study Project in Community Studies (1-6)

Justice, Law, and Society

Undergraduate Courses

73.100 Institutions of Justice /S 4:1 (3) The operations of formal systems of social control and justice in contemporary America; the conditions, values, and processes that have defined them; and the limits of their authority over the individual. Emphasis on the evolution of the criminal, civil, juvenile, and administrative justice systems. Usually offered every term.

73.103 Introduction to Problems of Justice /S (3) Political, legal, economic, and social problems of justice emphasizing crime, deviance, and other conduct resulting in such socially disapproved labels as mentally ill, delinquent, and criminal. Moral and theoretical issues involved and mechanisms for remedying injustice and controlling socially disapproved behavior. Usually offered every term.

73.104 Introduction to Systems of Justice /S (3) An overview of the formal mechanisms of social control as manifested by the components of the criminal justice system (legislatures, planning agencies, law enforcement, courts, and corrections), civil justice systems, and such other mechanisms as civil commitment. Alternatives to formal processing including diversion, pretrial screening and dispute-settlement programs. Usually offered every term.

73.200 Deprivation of Liberty /S 4:2 (3) Analysis of the values, costs, and logic of the manners in which classes of people (e.g., criminals, the mentally ill, drug abusers) are defined as dangerous; analysis of the specific means of limiting their ability to harm others, public order, or themselves. Emphasis on imprisonment, institutionalization, probation, capital punishment, and enforced treatment. Usually offered every term. *Prerequisite for General Education credit:* 73.100 or 54.105.

73.205 History and Philosophy of Criminology /A, S (3) Development of theories of criminology and criminal justice over the course of history with attention to the period from 1700 to the present. Review and evaluation of contemporary knowledge and theories of crime. Usually offered every term.

73.206 Social Justice and Deviant Behavior (3) Consideration of conformity and deviance in the light of broader issues of social justice (poverty, racism, sexism, alienation, etc.), of interactions between persons and groups that engage in and sanction deviance, of the role of ideology in the definition of deviance, and of the social policy consequences of deviance definition. Usually offered every fall.

73.210 Policing in America: An Introductory Survey /S (3) A survey of the history, development, environment, organization, and sociology of American law enforcement, with emphasis on state and local police agencies. Police as an agency of social control; police as a service agency; police as a part of government and of the justice system. Usually offered every fall.

73.211 Contemporary Issues in American Law Enforcement (3) Analysis of major contemporary issues in law enforcement. Policy formulation; operational procedures; patrol; performance measurement; women and minorities in policing; labor-management relations; corruption; political accountability; use of force; citizen complaints. Usually offered every spring. *Prerequisite:* 73.210

73.230 Contemporary Corrections in the United States (3) Survey of current correctional thought and practices in the United States and their evolution. Overview of correctional treatment in different kinds of institutions and in the community. Usually offered every spring. *Prerequisite:* 73.210.

73.253 Juvenile Delinquency and Youth Crime (3) Development of the individual through childhood and adolescence as it relates to delinquency and crime; special characteristics of juvenile criminality; current principles, policies, and practices for its prevention and control. Factors producing delinquency. Juvenile detention, juvenile court, training schools, and treatment of the offender. Usually offered every spring.

73.300 Drugs and Society /S (3) Fundamental issues regarding drug use, human freedom, addiction, and treatment; the history of the opiates, especially heroin, in America and Britain; the role of law, enforcement, and treatment in dealing with opiate users in both countries. Usually offered every fall.

73.301 Drugs, Consciousness and Human Fulfillment (3) Positive approaches to achieving alternative states of consciousness with and without drugs; the nonaddictive use of addicting drugs; a balanced assessment of the latest findings on the dangers and benefits of the most widely used nonopiate recreational drugs, such as marijuana, tobacco, caffeine, alcohol, quaaludes, and cocaine; choices for individuals and society regarding the use and control of the substances. Usually offered every spring.

73.302 Alcoholism and Society (3) Analysis of alcoholics in terms of social forces that produce them. Cultural values, social pressures, response to the alcoholic by spouse, family, and legal systems, and the effects of such responses are examined using cross-cultural data. Usually offered every spring.

73.307 Justice and Law /A, S (3) The historical development, theory, principles, and content of criminal and civil law and their interrelationships; exploration of due process, rule of law, and the role of the Constitution in protecting rights and limiting the actions of both civil and criminal justice agencies. Usually offered every term.

73.308 Justice and Morality /A, S (3) Moral issues involved in administering justice in society, emphasizing the nature of human rights and the ideal of justice. Moral consequences of official control actions of lawmakers, justice system caretakers, and others involved in the definition of crime and deprivation of liberty, stressing "morals offenses." Usually offered every term. *Prerequisite:* 60.105.

73.311 Introduction to Forensic Science (3) Scientific analysis and identification of evidence and documents, special police techniques, interpretation of medical reports, and preparation of reports. Usually offered every fall.

73.313 Organized Crime (3) Organized crime in the United States; its effect on society and the need for integrated response by people, government, and business. Organized crime as social subculture. Socioeconomic and political aspects of organized crime emphasizing internal controls and external relations with various political and economic sectors. Usually offered every spring.

73.315 White-Collar and Commercial Crime (3) Economic and fiscal implications and enforcement problems. Fraudulent association, bankruptcy fraud, monopoly and coercive competitive practices, and illegal use of securities and credit cards. Problems of theoretical criminology presented by white-collar crime. Usually offered every fall.

73.320 Criminal Procedure (3) Enforcement, investigation, pretrial procedure, trial procedure and sentencing, post-trial motions, appeals, reviews, and remedies. Police practices such as arrest, search and seizure, bail, preventive detention, and interrogation. Right to counsel, incompetency, and the insanity defense. Usually offered every fall. *Prerequisite:* 73.307.

73.321 Evidence (3) Rules of evidence applicable in criminal cases, including presumptions and inference; direct and circumstantial evidence; real evidence; testimonial knowledge and opinions evidence; character evidence; the hearsay rule and its exceptions; documentary evidence; confessions, admissions, and privilege against self-incrimination; illegally obtained evidence, witnesses; and former testimony. Usually offered every spring. *Prerequisite:* 73.307 and 73.320.

73.330 Institutional Corrections /S (3) Analysis of correctional processes in juvenile and adult institutions. Usually offered every fall.

73.331 Corrections in the Community (3) Probation and parole-supervision concepts, prerelease planning, caseload classification techniques, use of probation case-aides, and community and neighborhood treatment centers. Auxiliary services such as employment, mental health, and vocational counseling. Usually offered every spring.

73.340 Judicial Administration: Criminal (3) Management of criminal process to assure all constitutional rights. Administrative relationships of courts with agencies and individuals involved in criminal justice: defendants; police and criminal investigation agencies; prosecutors and defense counsel; bail agencies; probation officers; and cor-

rectional agencies. Grand jury and petit jury procedures. Protection of the integrity of judicial process. Usually offered every fall.

73.341 Judicial Administration: Civil (3) Problems of civil litigation: personal injury, probate, small claims, and landlord and tenant relations. Protracted litigation. Devices for narrowing issues and expediting litigation. Alternatives for resolving disputes. Judicial management problems: record keeping, calendar management, and jury service. Administrative relationships of courts to other agencies and to the public. Usually offered every spring.

73.351 Individuals, Institutions, and Justice in America (3) Examination of the suitability of the U.S. system for dealing with institutions by examining the present status of institutions and individuals. Criteria for assessing abuses and improvements suggested by public interest, legal, political, and research action groups.

73.352 Psychiatry and the Law /S (3) Basic psychiatric principles including contemporary views of causes, manifestations, patterns, and treatments of psychiatric and behavioral disorders; trends in the use of psychiatric resources to deal with deviant behavior within and without the criminal justice system. Incompetence as bar to trial, insanity as defense, civil commitment, drug addiction, alcoholism, psychiatry in processing and treating juvenile offenders, and rehabilitative efforts of the corrections system. Usually offered every fall.

73.380 Introduction to Justice Research (3) Social research methods as applied to justice research. The function and role of justice research and the nature and form of research designs, methods, and tools. Usually offered every term. *Prerequisite:* 42.202 and junior standing.

73.382 Determination of Fact (3) An introduction to fact finding. Considers how necessary factual bases for administrative, managerial, legislative, and adjudicative decisions are established; discusses ethical strategies for using physical evidence, people, records, and files in proof; compares investigation, auditing, and scientific method; and uses examples from criminal, civil, juvenile, and military justice system design and operation problems. Usually offered every spring.

73.390 Independent Reading Course in Justice (1-6)

73.392 Cooperative Education Field Experience (3-9) See description under Cooperative Education in this publication

73.411 Problems in Forensic Science (3) Examination of specific problems involving case studies of investigative techniques, practices, and procedures, with emphasis on scientific application thereto. Usually offered every spring. *Prerequisite:* 73.311.

73.420 Legal Reasoning (3) Students absorb scholars' and judges' descriptions of analysis and decision in law; practice legal reasoning themselves through analysis of appellate decisions, statutes, and the U.S. Constitution; study procedural and organizational components of the American legal system; and choose an area in which to concentrate and synthesize their learning by developing reasoned arguments. Usually offered every term.

73.431 The Prison Community (3) Social organization in correctional institutions. Inquiry into the nature, organization, and aims of the penal system and its effect on groups it deals with. Interaction of groups within institutions. Usually offered every spring.

73.450 Prevention of Crime and Delinquency (3) Concept of prevention, programs of prediction, sources of data on high delinquency and criminality areas, and community action projects as preventive services. Usually offered every spring

73.454 Violence in America (3) Emphasis on various ideologies and events that cause or reduce violence, such as social movements, depressions, war, and political repression.

73.458 The Juvenile and the Law (3) Special legal status of the juvenile. Protective services, incompetence to enter contracts, compulsory education, child labor laws, and *in loco parentis* actions by state and private institutions. Juvenile and family court movement, emphasizing non-criminal aspects of administering juvenile justice: guardianship, dependency, neglect, child support, paternity, and adoption. Usually offered every fall.

73.463 The Free Press and the Administration of Justice (3) The constitutional guarantee of freedom of the press as it pertains to problems in administration of justice. Free press and law enforcement, fair trial, and correctional processes. Problems of administrative secrecy, national security, and right to privacy. Usually offered every spring.

73.490 Independent Study Project in Justice (1-6)

73.491 Internship in a Justice Setting (1-6) Provides students with actual experience in the administration of justice through assignment to enforcement, judicial, or correctional agencies under joint supervision of agency officials and university instructor. Usually offered every term.

73.492 Washington Justice Seminar I: A National and Intergovernmental Perspective (4) Classroom section of a double seminar. Each session covers a specific area in terms of theory and operational principles and explores the roles of all three branches of government in creating and operating justice systems in federations. Usually offered every term.

73.493 Washington Justice Seminar II: A National and Intergovernmental Perspective (4) Laboratory section of a double seminar. Field visits with discussions led by agency personnel regarding the intergovernmental roles of their agencies and their place in justice systems. Theory and operational principles covered in 73.492. Usually offered every term.

Graduate and Advanced Undergraduate Courses

73.500 Moral Issues in Criminal Justice (3) Discussion and analysis of moral issues and their relationship to the criminal justice system. Usually offered alternate springs.

73.501 The Concept of Justice (3) Major philosophical contributions to the definition of justice. The relationship of the ideal of justice to concrete situations in which issues of justice (civil, criminal, or political) arise. Usually offered alternate falls.

73.502 The Concept of Law (3) Major philosophical approaches to problems of meaning, function, and necessity of law in society. The concept of law is examined in its relationship to values, custom, power, social change, and social theory. Usually offered alternate springs.

73.503 Criminal Behavior: A Psychosocial Analysis (3) Examines various clinical and theoretical explanations for different types of criminal behavior including an analysis

of the violent offender, the psychotic offender, the psychopathic offender, and the white-collar offender. Readings and other case-study material of actual criminal offenders are examined in order to acquaint students with developing an understanding of the causes and "treatment." Offered irregularly.

73.504 Comparative Criminology and Criminal Justice (3) A comparative study of criminology and criminal justice systems as developed in the United States and elsewhere. Usually offered alternate springs.

73.517 Victimology (3) Victims as an integral part of crime. Theories and research results on the victim role, criminal-victim relationships, concepts of responsibility, and society's reaction to victimization. Sexual assault, child abuse, and victimization of the elderly. Crisis-intervention centers, court related victim/witness services, restitution, and compensation.

73.520 Theories of Planned Change: Society, the Environment, and Justice (3) Historical attempts of people to improve living conditions. Basic strategies of intervention and possible alternatives compared to past attempts. Legal and economic inequality, personal helplessness, and relationships between concepts of change in economics, land use, law, sociology, and justice. Usually offered every fall.

73.521 Law and the Mental Health System (3) This course examines the interprofessional relationship between law and the mental health systems, including areas of conflict and close working relationships. Areas covered include standards for involuntary hospitalization, the role of the insanity defense, psychiatric liability, the rights of the mentally ill including the right to treatment and right to require treatment. Offered irregularly.

73.522 Crime and Public Policy (3) An examination of national and state policy issues that affect the definition of crime and the responses by executive- and judicial-branch agencies toward crime. Offered irregularly.

73.540 Police and the Political System (3) Police function as an instrument of public policy, particularly social and economic. Relationship of police to public and private agencies, constitutional and pragmatic limits on law enforcement, problems of federalism, police discretion and selective enforcement, minimum standards, community control, political feasibility, and due process as a necessity for ordered liberty. Usually offered every fall.

73.541 The Police State (3) The theory and practice of the police state in comparative perspective. Authoritarian and antidemocratic aspects of police and other criminal justice agencies. Other agencies of social control in both democratic and nondemocratic settings. Democratic controls and human rights. Usually offered every spring.

73.550 Drugs, Crime, and Public Policy (3) Review of the history of drug abuse in America; the relationship between drug abuse and crime, including marijuana, heroin, and alcohol; national strategies to deal with drug abuse; improvement of policies in the future. Usually offered every fall.

73.551 Comparative Justice Studies (3-6) On-site review of theories and practices of crime and criminal justice systems of other countries, including crime, justice, and heroin in England; juvenile justice in England and America; comparative corrections; and administration of justice in England, Sweden, Denmark, and the Netherlands. Usually offered every summer.

73.552 Drug Abuse and the Law (3) Legal classifications of drugs in major federal and state statutes; the evolution of case law in opinions of U.S. Supreme Court and in state and local courts; controls on medical doctors regarding legitimate use of drugs in treating the addicted and the organically ill; the current law regarding possession, transportation, sale, extrajurisdiction, and search and seizure; and comparison with law of the United Kingdom. Usually offered every spring.

73.553 Drug Abuse Treatment (3) Various methods now in use in America and other countries for assisting persons having difficulties associated with the abuse of drugs, including narcotics, alcohol, marijuana, hallucinogens, tranquilizers, and tobacco, among others. Clinical techniques and organizational methods. *Prerequisite:* 73.550.

73.590 Independent Reading Course in Justice (1-6)

Graduate Courses

73.600 Proseminar: Issues in Justice (3) The proseminar provides incoming graduate students with an overview of the interests and specialties of the School of Justice faculty. Faculty members lecture on such issues as American prisons, drug usage and policy, law enforcement and social control, law and psychiatry, victimology, American courts: their structure and function, philosophies of justice, the institutions of justice, and the study of law as a behavioral science. Lecture classes alternate with classes in which the instructor leads a discussion of the issues raised by the preceding speaker. Usually offered every fall.

73.604 Theoretical Issues in Justice (3) Consideration of the nature and sources of injustice, crime, and deviance; the variety of social control mechanisms including the legal system; the role of ideology; and the problems of legitimacy, authority, and responsibility of justice-system design and operation. Usually offered alternate springs.

73.606 Nature and Function of the American Legal System (3) Law as a discipline among disciplines. The nature and sources of legal systems, the operation of the legal system among governmental and social systems, and legal systems from a sociological as well as from a traditional legal viewpoint. Usually offered alternate falls.

73.608 The Constitution and Criminal Procedure (3) Constitutional standards and operation of the criminal justice system. Police practices, bail, decision to prosecute, scope of prosecution, grand jury proceedings, preliminary hearings, right to counsel, right to speedy trial, plea bargaining, discovery and disclosure, jury trial, trial by newspaper, double jeopardy, and post-trial proceedings. Usually offered every spring.

73.609 The Political Basis of the Criminal Justice System (3) Criminal justice aspects of political systems. Actors in the system are considered in their political roles. Emphasis on policy making, political elites and community power, and interest articulation within and outside formal governmental structure. Criminal and civil justice as sub-systems of the political system. Usually offered every spring.

73.612 White-Collar Crime in Government, Business, and Labor (3) Criminal frauds and deceptions and related behavior in government, business, labor, and other settings. Includes consumer fraud, stock market and other corporate crimes (including bribery), conflict of interest, and Watergate phenomena.

73.631 Applied Justice Program Evaluation Techniques (3) Practical guidance in the techniques of designing, implementing, and presenting results of justice program evaluation plans. Basic social research methods are applied to practical, action-oriented justice system programs. Requires knowledge of graduate-level social research methods. Offered irregularly.

73.640 Theoretical Bases of Law Enforcement (3) Theoretical models that explain law-enforcement operations and behavior. Comparative analysis and historical evolution of urban police, the effects of cultural and social factors and social movements. Offered irregularly.

73.641 Management and Policy Issues in Law Enforcement (3) A systems approach to the issues of law-enforcement organization and management. Management principles, organizational structures, and analysis of policy issues stressing dynamics of policy development and implementation. Law-enforcement agencies as open and interacting systems in enacting legal policies. Usually offered every fall.

73.642 Seminar on Contemporary Literature in Law Enforcement (3) Selected readings of recent books, articles from professional journals, government documents, and research reports. Offered irregularly.

73.660 Critical Issues in Judicial Administration (3) Policy analysis of problems of organization, structure, and management development in the judicial branch. The role of judicial branches in resolving conflict; the growth and decay of institutions and processes in the judiciary; change-process analysis; and analysis of germane case law, statutes, and other materials. Usually offered every spring.

73.661 Complex Organizational Theory in Court Systems and Legal Organizations (3) Major theoretical perspectives on complex organizations; application of conceptual frameworks to organization and management problems of court systems, law offices, public and private, and other law-related institutions; development of managerial perceptions and philosophies. Usually offered every fall.

73.662 Court Management Practices (3) Applies specific management concepts and practices to court systems and other legal organizations. Review of literature relating to functions of court systems including finance, personnel, case-flow, jury, space, and information systems. Examination of specific organizational environments, development of management philosophy for the public sector, and role analysis. Usually offered every spring.

73.680 Introduction to Justice Research I (3) The logic of scientific inquiry and the nature and process of social research as applied to justice. Theory, concepts, practices, and the demonstration of their reliability and validity. Attention is also given to methods of sampling design and techniques of data collection. Usually offered every fall.

73.681 Introduction to Justice Research II (3) Methods of data analysis applicable to research in the justice field. Building on the concepts presented in 73.680, the course examines the link between research design and empirical analysis, the role of probability in hypothesis testing, and the concept and techniques of descriptive and inferential statistics. Usually offered every spring. *Prerequisite:* 73.680.

73.683 Institutional Corrections (3) Correctional institutions and their functions. Topics include: prisons as total

institutions; characteristics of various kinds of correctional facilities; problems of rehabilitation; analysis of prison communities; patterns of adjustment to prison life among inmates and staff; and the effects of institutionalization of offenders. Usually offered every fall.

73.684 Community Corrections (3) The utility of treating selected offenders outside the institutional setting. Theory and practice of probation, parole, half-way houses, and experimental programs. Emphasis on understanding the legal, philosophical, and decision-making processes affecting the implementation of community corrections. Usually offered every fall.

73.685 Juvenile Corrections (3) The basic premises of the system of corrections that attempts to control and treat the juvenile offender. Sources of delinquent behavior as they relate to system responses to the phenomenon. Recent trends in the juvenile system are contrasted with traditional procedures. Usually offered every spring.

73.687 Management Issues in Corrections (3) Management theories and their application to specific correctional organizational settings. Management by objectives, the management grid, motivation and job-satisfaction problems, goal setting, organizational effectiveness, organizational climate, and interorganizational relationships in maintaining resources. Usually offered every spring.

73.690 Independent Study Project in Justice (1-6)

73.691 Internship in a Justice Setting (1-6) Provides students with experience in administering justice in operational or research settings through assignment to legislative, regulatory, planning, police, judicial, or correctional agencies under joint agency/school supervision that includes faculty evaluation of ongoing written reports. Usually offered every term.

73.692 Cooperative Education Field Experience (3-6) See description under Cooperative Education in this publication.

English Language Institute

Undergraduate Courses

Note: The following courses are offered for no academic credit towards graduation. Values in parentheses indicate credit equivalents only for the purpose of determining full-time student status.

74.010 English I: Basic Intensive English (0) An intensive course in basic English as a second language intended for students with little or no command of English. Emphasis is on listening and speaking skills necessary for essential communication, and on building a basic foundation in grammar. Enrollment in 74.010 constitutes full-time study. Offered only as enrollment warrants. *Prerequisite:* admission by ELI placement test only.

74.020 Grammatical Analysis II (2) A low intermediate course in English grammar intended for students with a basic command of English. Emphasis is on variations of basic sentence patterns. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.010.

74.022 Reading Skills II (4) A low intermediate course in basic reading skills in English as a second language; intended for students with a basic command of English. Emphasis is on understanding written English and on

vocabulary development. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.010.

74.024 Writing Skills II (4) A low intermediate course in English as a second language. Emphasis is on developing basic mechanics and conventions of written English through controlled writing exercises and activities. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.010.

74.026 Listening and Speaking Skills II (4) A low intermediate course in English as a second language. Emphasis is on improving pronunciation, conversation ability and listening comprehension skills. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.010.

74.030 Grammatical Analysis III (2) An intermediate course in English as a second language. Emphasis is on mastering verb tenses and structures of modification. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.020.

74.032 Reading Skills III (4) An intermediate course in English as a second language. Emphasis is on comprehension of main ideas and supporting details, organization of texts, and vocabulary expansion. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.022.

74.034 Writing Skills III (4) An intermediate course in English as a second language. Emphasis is on moving from controlled writing to accurate free writing of expanded sentence patterns. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.024.

74.036 Listening and Speaking Skills III (4) An intermediate course in English as a second language. Emphasis is on improving conversational listening and speaking skills. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.026.

74.040 Grammatical Analysis IV (2) A high intermediate course in English as a second language. Emphasis is on the complex grammatical structures characteristic of academic language. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.030 or 74.130.

74.041 Grammar Review (3) This course provides a rapid review of the English verb tense system and advanced grammatical structures. *Prerequisite:* Admission by placement test.

74.042 Reading Skills IV (4) A high intermediate course in English as a second language. Emphasis is on increasing reading speed and comprehension and on word study. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.032 or 74.132.

74.044 Writing Skills IV (4) A high intermediate course in English as a second language. Emphasis is on mastery of paragraph development and proofreading. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.034 or 74.134.

74.046 Listening and Speaking Skills IV (4) A high intermediate course in English as a second language. Emphasis is on comprehension of academic discourse and extended oral production. Usually offered every term.

Prerequisite: admission by placement test or successful completion of 74.036 or 74.136.

74.048 Integrated Skills (3) This course provides students with an opportunity to develop their English proficiency by practicing all skills in a course which takes its focus from a particular content area. *Prerequisite:* admission by placement test or ELI recommendation.

74.050 Reading and Text Analysis (4) An advanced course in English as a second language. Emphasis is on analytical reading and improving academic study skills. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.042 or 74.142.

74.051 Composition Skills and Grammar Review (4) An advanced course in English as a second language. Emphasis is on essay writing and error analysis. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.040 (or 74.140) and 74.044 (or 74.144).

74.080 English Workshop (3) Review course emphasizing fundamentals of grammar necessary for the improvement of writing skills. Does not fulfill the university English requirement. Usually offered every fall and spring. *Prerequisite:* Admission by ELI recommendation only.

University English Requirement

Note: The following courses carry academic credit towards graduation as indicated.

74.200 College Reading and Writing I (3) An advanced course in reading and composition for international students whose competence in English qualifies them to take academic courses without special English. Emphasis is on academic reading and writing tasks, with attention to the residual language problems of nonnative speakers. Usually offered every term. Fulfills the first half of the university English requirement and the university competency requirement. (See also College Writing and English Competency under University Requirements in the Undergraduate Study section of this publication.) *Prerequisite:* admission by placement test or successful completion of 74.150 (or 74.050) and 74.151 (or 74.051) or 74.180 (or 74.080).

74.201 College Reading and Writing II (3) A continuation of 74.200; emphasis on library and research techniques, including the writing of a research paper. Usually offered every term. Completes the university college writing requirement. *Prerequisite:* 74.200.

74.280 College Writing Skills Workshop (3) For advanced students of English as a second language. Emphasis is on writing summaries and syntheses of materials drawn from a wide range of subject areas. Usually offered every term. Fulfills the university college writing and English competency requirement for transfer students. (See also College Writing and English Competency under University Requirements in the Undergraduate Study section of this publication.) *Prerequisite:* admission by permission of instructor.

74.390 Independent Reading Course in English (1-6)

74.490 Independent Study Project in English (1-6)

Graduate and Advanced Undergraduate Courses

Note: the following course is offered for no academic credit.

74.096 Graduate Writing Seminar (0) Restricted to graduate international students. Emphasis on library and research techniques and on writing a research paper. Usually offered every fall and spring. *Prerequisite:* admission by placement test or departmental recommendation.

Interdisciplinary Studies

Undergraduate Courses

75.490 Independent Study Project in Interdisciplinary Studies (1-6)

75.491 Internship (1-6) May be repeated for credit in the same term; topic may be the same.

Graduate and Advanced Undergraduate Courses

75.501 Integrated Seminar on Russia (3) A team-taught, interdisciplinary seminar, designed to provide a sense of cohesion through a coordinated approach. Emphasis on complex current problems facing the Soviet Union, both at home and abroad, with attention to their interrelationship and historical background. Usually offered every spring. *Prerequisite:* one course in Russian studies.

75.590 Independent Reading Course in Interdisciplinary Studies (1-6)

Graduate Courses

75.690 Independent Study Project in Interdisciplinary Studies (1-6)

75.691 Internship (1-6) May be repeated for credit in the same term; topic may be the same.

Women's Studies

Undergraduate Courses

76.150 Women's Voices through Time /A 2:1 (3) The distinctive contributions of women to Western artistic and intellectual traditions. Significant articulations of human experience expressed by women through literature, art, and history; how such traditions became established and how women, despite obstacles, have produced lasting works of ideas and imagination. *Note:* not open to students who have taken 07.307 Women in Art.

76.250 The Social Reality of Women /S 4:2 (3) Women as an under-represented category in the understanding of social institutions and behavior. An interdisciplinary approach offers diverse theories concerning the female gender. Emphasis on psychological development and on the impact of the family, government, law, and the workplace on women in past and contemporary American life. Us-

ally offered every fall and alternate springs. *Prerequisite for General Education credit:* 03.150 or 57.105. *Note:* not open to students who have taken 76.250 Perspectives on Women.

76.350 Interpreting Women in Culture (3) An exploration of diverse aspects of women's cultural situation from different disciplinary perspectives. Rotating topics focus on specific subjects, integrating recent scholarship and interdisciplinary contexts. Representative topics: Sisters and Brothers/Husbands and Wives, Women and the Performing Arts, Women and Men in American Culture. Usually offered every spring

76.490 Independent Study in Women's Studies (1-6)

76.491 Internship in Women's Studies (1-6) *Prerequisite:* 76.250.

APEL

Undergraduate Courses

77.240 Documentation and Analysis of Field Experience (APEL) (3) Students construct a portfolio that identifies their prior experiential learning. Required of all students admitted to the APEL program and limited to them. Usually offered every term.

Study Abroad

92.300 Copenhagen Semester (1-3) In cooperation with the Denmark's International Study Program at the University of Copenhagen, students may take courses in liberal arts or international business. These courses, taught by European professors, are supplemented by extensive field trips. *Prerequisite:* consult the office of Study Abroad Programs.

93.495 Semester in Beijing (1-6) Students have the opportunity to take specific courses at the University of International Business and Economics in Beijing, China. All participants must take intensive Chinese language (Mandarin). Courses in Chinese Economic Cooperation, History and Culture, and an independent study project supervised by the resident professor are offered. Usually offered every fall. *Prerequisite:* consult the Study Abroad Office.

94.300 Study Abroad in Poland (3-6) In cooperation with The Adam Mickiewicz University in Poznan, students may take courses in liberal arts and modern languages. Six hours of Polish language is compulsory for all participants. These courses are taught in English by European professors at the university's Institute of English. *Prerequisite:* consult the office of Study Abroad Programs.

95.390 Study Abroad: Independent Reading (3-6) An opportunity to do an independent reading course under faculty supervision while attending a study abroad program. *Prerequisite:* consult the office of Study Abroad Programs.

95.490 Study Abroad: Independent Study (3-6)



Professor David Aaronson is honored as University Scholar/Teacher of the Year.

1988-1989 Full-Time Faculty

The faculty list below covers the 1988-1989 academic year only.

The date in parentheses following each name is the year in which that faculty member was appointed to the full-time faculty. This list includes research and emeritus faculty as well as the regular full-time faculty. *Asterisk indicates department chair or director.

- Aaronson, David E.** (1970), B.A., M.A., Ph.D., The George Washington University; LL.B., Harvard University; LL.M., Georgetown University; Professor of Law and Justice.
- Abele, Rudolph von** (1947), A.B., Ph.D., Columbia University; Professor Emeritus of Literature.
- Abraham, Evelyn G.** (1977), B.A., J.D., Case Western Reserve University; Professor of Law.
- Adams, Elizabeth** (1984), B.A., Syracuse University; M.S., Yeshiva University; M.S., The American University; Assistant Professor of Computer Science and Information Systems.
- Agular, Adolfo** (1988), M.P.A., Harvard University; B.A., El Colegio de Mexico; Associate Professor of International Service.
- Ahrens, Anthony H.** (1987), B.A., Northwestern University; Ph.D., Stanford University; Assistant Professor of Psychology.
- Aldridge, Mary H.** (1955), B.S., University of Georgia; M.A., Duke University; Ph.D., Georgetown University; Professor Emerita of Chemistry.
- Alleyne, Mark** (1989), B.A. Howard University, M.Phil. Oxford University (St. Anthony's College). Visiting Scholar of International Service.
- Alaati, Fahim M.H.** (1985), B.Sc., Baghdad University, Iraq; M.B.A., Ph.D., New York University; Assistant Professor of Business Administration.
- Anderson, Frederick R., Jr.** (1985), B.A., University of North Carolina; B.A., Oxford University; J.D., Harvard Law School; Professor of Law.
- Anderson, Laird B.** (1973), B.S., Florida State University; M.A., The American University; Professor of Communication.
- Anthony, Carl G.** (1961), B.A., University of Chicago; M.A., Ph.D., Harvard University; Professor Emeritus of History.
- Arnold, Steven H.** (1970), B.A., Occidental College; M.A., Ph.D., Johns Hopkins University; Associate Professor of International Service.
- Aufferdelhe, Patricia** (1988), B.A., M.A., Ph.D., University of Minnesota; Assistant Professor of Communication.
- Awartani, Faisal** (1988), B.A., Birzeit University, West Bank; M.S., The American University; Instructor of Mathematics and Statistics.
- Bagranoff, Nancy A.** (1987), A.A., Briarcliff College; B.S., Ohio State University; M.S., Syracuse University; D.B.A., The George Washington University; Assistant Professor of Business Administration.
- Bailey, Jessica M.** (1981), B.S., M.Ed., Coppin State College; M.B.A., Ph.D., University of Missouri; Assistant Professor of Business Administration.
- Baker, H. Kent** (1975), B.S.B.A., Georgetown University; M.B.A., D.B.A., M.Ed., University of Maryland; M.S., The American University; C.F.A. and C.M.A.; Professor of Business Administration.
- Baker, Isalah** (1979), B.A., Yale University; M.B.A., J.D., Columbia University; M.A., De Paul University; LL.M., Harvard University; Associate Professor of Law.
- Baker, Kenneth** (1966), B.A., M.A., University of Kansas; Associate Professor of Performing Arts.
- Banta, William C.** (1970), B.A., University of California, Berkeley; Ph.D., University of Southern California; Professor of Biology.
- Baranovic, Boris I.** (1966), B.A., Amherst College; M.F.A., Yale University; Associate Professor of Performing Arts.
- Barnard, Philip H.** (1987), B.A., University of Kentucky; M.A., The

- American University in Cairo; Assistant Professor of Literature.
- Baron, Naomi S.** (1987), B.A., Brandeis University; Ph.D., Stanford University; Professor of Languages and Foreign Studies and Associate Dean of the College of Arts and Sciences.
- Barrett, Nancy Smith** (1966), A.B., Goucher College; M.A., Ph.D., Harvard University; Professor of Economics.*
- Barron, Austin M.** (1971), B.S., City College of New York; M.S., Ph.D., Purdue University; Associate Professor of Mathematics and Statistics and Associate Dean of the College of Arts and Sciences.*
- Bartfield, Charles I.** (1966), M.B.A., Ph.D., Columbia University; Professor of Business Administration.
- Bassler, Richard A.** (1969), B.S., University of Colorado; M.S., The George Washington University; Ph.D., Laurence University; Professor Emeritus of Computer Science and Information Systems.
- Batchelder, Merritt C.** (1935), B.A., Hillsdale College; M.A., Columbia University; Ph.D., Iowa State University; Professor Emeritus of Literature.
- Bean, Arthur P., Jr.** (1963), B.A., M.A., University of Virginia; M.S., The Catholic University of America; Associate Professor Emeritus of Literature.
- Beck, Audrie** (1988), A.A., Essex Community College; B.S., Towson State University; M.P.A., Loyola College; C.P.A., State of Maryland; Instructor of Business Administration.
- Belsner, Robert L.** (1965), M.A., Ph.D., University of Chicago; Professor of History.*
- Bennett, Betty T.** (1985), B.A., Brooklyn College; M.A., Ph.D., New York University; Professor of Literature and Dean of the College of Arts and Sciences.
- Bennett, Richard R.** (1979), B.A., Randolph-Macon College; M.A., Florida State University; Ph.D., Washington State College; Associate Professor of Justice.
- Bennett, Susan D.** (1988), J.D., Columbia University; M.A., Yale University; B.A., Yale University; Assistant Professor at Law.
- Berendzen, Richard** (1974), B.S., Massachusetts Institute of Technology; M.A., Ph.D., Harvard University; Professor of Physics and University President.
- Bergin, Thomas J.** (1982), B.A., University of Maryland; M.A., Ph.D., The American University; Associate Professor of Computer Science and Information Systems.
- Bergmann, Barbara R.** (1988), B.A., Cornell University; M.A., Ph.D., Harvard University; Distinguished Professor of Economics.
- Berman, Alan L.** (1969), B.A., Johns Hopkins University; Ph.D., The Catholic University of America; Professor of Psychology.
- Betts, Madeleine** (1969), B.A., M.A., Université d'Ottawa; Ph.D., University of Illinois; Associate Professor Emerita of Language and Foreign Studies.
- Bleier, Jack** (1984), B.A., Temple University; M.S., Johns Hopkins University; Assistant Professor of Mathematics and Statistics.
- Biles, George E.** (1976), A.A., Northern Virginia Community College; B.S., U.S. Naval Academy; A.M., The George Washington University; M.A., The American University; Ph.D., Ohio State University; A.P.D., C.C.P.; Professor of Business Administration.
- Blecker, Robert A.** (1985), B.A., Yale University; M.A., Ph.D., Stanford University; Assistant Professor of Economics.
- Bliss, Edward Lyndon** (1968), B.A., Yale University; Professor Emeritus of Communication.
- Blum, Annabelle M.** (1966), B.S., University of Wisconsin; M.A., Ph.D., University of Chicago; Professor Emerita of Sociology.
- Blum, Joseph** (1965), B.S., City College of New York; A.M., Ph.D., The George Washington University; Professor Emeritus of Mathematics and Statistics.
- Bodine, John J.** (1968), B.A., University of Oklahoma; M.A., Ph.D., Tulane University; Professor of Anthropology.
- Bonafede, Dom** (1985), B.Litt., Rutgers University; Assistant Professor of Communication.
- Bonham, G. Matthew** (1972), B.A., Northwestern University; Ph.D., Massachusetts Institute of Technology; Professor of Government and Public Administration and International Service.* @1 =
- Borkovec, Vera Z.** (1966), undergraduate degree, Charles University, Prague, Czechoslovakia; M.A., Hollins College; M.A., The American University; Ph.D., Georgetown University; Associate Professor of Language and Foreign Studies.
- Bosted, Peter** (1988), B.S., Ph.D., Massachusetts Institute of Tech-

nology; Research Professor of Physics.

Bowers, John (1988), B.F.A., M.A., M.F.A., University of Iowa; Assistant Professor of Art.

Bowles, W. Donald (1957), B.A., University of Washington; M.A., Ph.D., Columbia University; Professor of Economics.

Boyle, James D. A. (1982), LL.B., Glasgow University; LL.M., Harvard Law School; Professor of Law.

Boynton, Robert P. (1969), A.B., Calvin College; A.M., Ph.D., University of Michigan; Professor of Government and Public Administration.

Brabanski, Lothar (1957), M.F.A., Berlin Academy of Fine Arts; Associate Professor Emeritus of Art.

Bradlow, Daniel (1989), B.A., University of Witwatersrand; J.D., Northeastern University; M.L.J.C., Georgetown University; Assistant Professor of Law.

Brasher, C. Nelson (1988), Ph.D., The American University; M.A., B.A., University of Colorado; Assistant Professor of Washington Semester and World Capitals Program.

Breltman, Richard David (1976), B.A., Yale College; Ph.D., Harvard University; Professor of History.

Brenner, Donald R. (1971), B.S., J.D., Ohio State University; Professor of Business Administration.

Brenner, Philip J. (1981), B.A., Columbia University; M.A., Ph.D., Johns Hopkins University; Associate Professor of International Service.

Breyer, Edward J. (1961), B.S., M.S., Ph.D., University of Maryland; Professor of Biology.

Broder, Ivy (1975), B.A., Hunter College; M.A., Ph.D., State University of New York at Stony Brook; Associate Professor of Economics.

Broude, Norma (1975), A.B., Hunter College; M.A., Ph.D., Columbia University; Professor of Art.

Brown, Roger H. (1965), A.B., A.M., Ph.D., Harvard University; Professor of History.

Bulmash, Gary F. (1975), B.S., M.B.A., D.B.A., University of Maryland; C.P.A.; Associate Professor of Business Administration.

Burd, Stephen D. (1988), A.A., Essex Community College; B.S., M.B.A., University of Baltimore; Ph.D., Purdue University; Visiting Assistant Professor of Computer Science and Information.

Burhoe, Sumner O. (1956), B.S., University of Massachusetts; M.S., Kansas State University; Ph.D., Harvard University; University Professor Emeritus of Biology.

Burkard, Edward I. (1962), B.S., M.S., Georgetown University; Ph.D., University of Pennsylvania; Professor Emeritus of Language and Foreign Studies.

Burkard, Grace Stovall (1960), A.B., Cornell University; M.A., The American University; Ph.D., Georgetown University; Professor Emeritus of Language and Foreign Studies.

Burke, D. Barlow, Jr. (1970), A.B., Harvard College; LL.B., M.C.P., University of Pennsylvania; LL.M., Yale University; Professor of Law.

Burkhart, Geoffrey L. (1968), B.A., Oakland University; Ph.D., University of Rochester; Associate Professor of Anthropology.

Burnett, Iris J. (1988), B.A., M.S., Emerson College; Associate Professor of Communication.

Burns, Kirk L. (1968), B.S., U.S. Naval Academy; M.A., University of Washington; Ph.D., University of Paris; Professor Emeritus of Computer Science and Information Systems.

Burr, Samuel Engle, Jr. (1947), Litt.B., Rutgers University; M.A., University of Wisconsin; M.A., Columbia University; Ed.D., University of Cincinnati; Professor Emeritus of Education.

Bustillo, Ines (1987), B.A., M.A., Ph.D., The American University; Assistant Professor of Economics.

Butts, James R. (1964), B.S., Virginia Polytechnic Institute; M.S., New York University; Associate Professor of Business Administration.

Callen, Earl R. (1968), A.B., M.A., University of Pennsylvania; Ph.D., Massachusetts Institute of Technology; Professor Emeritus of Physics.

Cannon, Thomas F., Jr. (1972), A.B., A.M., Boston College; Ph.D., University of Virginia; Assistant Professor of Literature.

Cantor, Murel G. (1968), B.A., M.A., Ph.D., University of California, Los Angeles; Professor of Sociology.

Cantrell, Thomas S. (1971), B.S., M.S., University of South Caro-

lina; Ph.D., Ohio State University; Associate Professor of Chemistry.

Cao, Andrew D. (1976), B.S., Indiana University; M.B.A., The American University; D.B.A., The George Washington University; Associate Professor of Business Administration.

Caprio, Anthony (1980), B.A., Wesleyan University; M.A., Ph.D., Columbia University; Professor of Language and Foreign Studies.*

Carson, Frederick W. (1970), B.S., Massachusetts Institute of Technology; M.A., Washington University; Ph.D., University of Chicago; Associate Professor of Chemistry.

Casey, Stephen D. (1988), Ph.D., University of Maryland; B.A., Drew University; Assistant Professor of Mathematics and Statistics.*

Chambless, Dianne L. (1982), B.A., Newcomb College of Tulane University; M.A., Ph.D., Temple University; Associate Professor of Psychology.

Chang, I-Lok (1970), B.S., California Institute of Technology; Ph.D., Cornell University; Associate Professor of Mathematics and Statistics.

Charbonneau, Marie A. (1960), B.A., M.A., University of Paris; Etudes Pratiques d'Anglais, Sorbonne; Associate Professor Emerita of Language and Foreign Studies.

Cheh, Albert Mel-chu (1980), B.A., Columbia College; Ph.D., University of California at Berkeley; Associate Professor of Chemistry.

Cheru, Fantu (1984), B.A., Colorado College; M.S., Ph.D., Portland State University; Assistant Professor of International Service.

Child, Jack (1982), B.E., Yale University; M.A., Ph.D., The American University; Associate Professor of Language and Foreign Studies.

Chinnis, Robert J. (1964), B.S., East Carolina University; M.Ed., University of North Carolina; Ed.D., University of Maryland; Associate Professor of Biology.

Chow, Esther Ngan L. (1973), B.S., Chinese University of Hong Kong; M.S., Southern Illinois University; M.S., Ph.D., University of California, Los Angeles; Professor of Sociology.

Chow, Ida (1989), B.S., Escola Paulista de Medicina, Brazil; M.S., Ph.D., McGill University, Canada; Assistant Professor of Biology.

Clark, Charles M. (1941), A.B., M.A., Ph.D., Cornell University; Professor Emeritus of Literature.

Clark, Leon E. (1981), B.A., Yale University; M.A.T., Yale University; Ed.D., University of Massachusetts; Associate Professor of Education.

Clarke, Barbara J. (1974), B.A., M.S., University of Maine; Ph.D., Tulane University; Associate Professor of Biology.

Clarke, Duncan L. (1970), A.B., Clark University; J.D., Cornell University; Ph.D., University of Virginia; Professor of International Service.

Cleary, Robert E. (1965), B.A., M.A., Montclair State College; M.A., Ph.D., Rutgers University; Professor of Government and Public Administration.

Cohen, Stephen D. (1975), B.A., Ph.D., The American University; M.A., Syracuse University; Professor of International Service.

Collins, Ronald (1988), B.A., University of California; J.D., Loyola Law School; Assistant Professor of Law.

Cook, Nancy (1988), J.D., Georgetown University; B.A., Ohio State University; Assistant Professor of Law.

Connolly, Frank W. (1982), B.A., University of Scranton; M.S., The George Washington University; Assistant Professor of Computer Science and Information Systems.*

Cope, Glen Hahn (1987), B.A., University of Michigan; M.P.A., Syracuse University; Ph.D., Ohio State University; Associate Professor of Government and Public Administration.

Corr, John B. (1986), B.A., M.A., John Carroll University; Ph.D., Kent State University; J.D., Georgetown Law Center; Visiting Associate Professor of Law.

Côté, Paul Raymond (1985), B.A., College of The Holy Cross; M.A., Middlebury Graduate School; Ph.D., McGill University; Assistant Professor of Language and Foreign Studies.

Cotter, James (1987), B.A., Marquette University; Development-Scholar-in Residence of International Service.

Coward, Billy G. (1964), B.S., B.A., M.A., The American University; Associate Professor of Health and Fitness.*

Crimi, Elizabeth (1988), B.A., University of Kansas; M.D., The American University; Instructor of Justice in Washington Semester.

Cromwell, William C. (1962), B.A., Emory University; M.A., Ph.D.,

The American University; Professor of International Service.

Crone, Lawrence J. (1984), B.A., Ph.D., The Catholic University of America; Associate Professor of Computer Science and Information Systems.

Crosby, David S. (1966), B.A., The American University; M.A., Ph.D., University of Arizona; Professor of Mathematics and Statistics.

Crowder, Charles F. (1967), B.M., Lawrence College; M.A., Columbia University; Professor of Performing Arts.

Cubberly, Elizabeth P. (1952), LL.B., The American University; Professor Emerita of Law.

Culver, David C. (1987), B.A., Grinnell College; Ph.D., Yale University; Professor of Biology.*

David, Robert L. (1974), B.S., M.A., Ph.D., Washington University; Associate Professor of Sociology.*

Davis, Harold E. (1947), B.A., Hiram College; M.A., University of Chicago; Ph.D., Case Western Reserve University; University Professor Emeritus of History and International Service.

Davis, Susan L. (1988), M.F.A., George Mason University; B.A., University of South Carolina; Writing Instructor in-Residence.

Dearden, James (1987), A.B., Muhlenberg College; Assistant Professor of Economics.

Degregorio, Christine A. (1988), B.A., University of Maryland; M.S.P., Boston College; Ph.D., University of Rochester; Assistant Professor of Government.

del Carmen, Rebecca (1987), B.A., Mary Washington College; M.A., The Catholic University of America; Ph.D., Ohio State University; Assistant Professor of Psychology.

DeLone, William H. (1986), B.S., Villanova University; M.S., Carnegie-Mellon University; Ph.D., University of California, Los Angeles; Assistant Professor of Business Administration.

Delong, Earl H. (1963), B.S., M.A., Ph.D., Northwestern University; Professor and Dean Emeritus of Government and Public Administration.

Dent, Richard J. (1988), B.A., University of Maryland; Ph.D., The American University; Research Associate Professor of Anthropology.

Dernburg, Thomas F. (1975), B.A., Swarthmore College; M.A., Ph.D., Yale University; Professor of Economics.

Dhillon, Gita L. (1966), B.Sc., Christian Medical College Hospital; M.Ed., Columbia University; Associate Professor Emeritus of Nursing.

DiBacco, Thomas V. (1965), B.A., Rollins College; M.A., Ph.D., The American University; Professor of Business Administration.

Diggs-Brown, Barbara (1989), B.A., Howard University; M.A., The American University; Assistant Professor of Communication.

Dinerstein, Robert D. (1988), J.D., Yale Law School; A.B., Cornell University; Associate Professor of Law.

Doolittle, John (1980), B.S., Northwestern University; M.A., University of Georgia; Ph.D., University of Wisconsin-Madison; Associate Professor of Communication.

Douglas, John S. (1978), B.A., M.A., The American University; Associate Professor of Communication.

Dubols, Frank L. (1988), B.A., Virginia Polytechnic and State University; M.B.A., Old Dominion University; Instructor of Business Administration.

Durfee, Harold A. (1955), Ph.B., University of Vermont; B.D., Yale University; Ph.D., Columbia University; William Frazier McDowell Professor of Philosophy and Religion.

Edelman, Richard B. (1983), B.S., M.B.A., D.B.A., University of Maryland; C.P.A.; Professor of Business Administration.

El Khadem, Hassan S. (1984), B.Sc., Cairo University; D.Sc.Tech., E.T.H. Zurich; D.Sc., University of Alexandria; D.Sc., University of London; Ph.D., Imperial College; Professor of Chemistry and Horace and May Isbell Chair in Natural Products Chemistry.

Enayet, Ali (1987), B.S., Iowa State University; M.A., Ph.D., University of Wisconsin-Madison; Assistant Professor of Mathematics and Statistics.

Eno, Irene W. (1961), Certificate, Sackler School of Design; Professor Emerita of Art.

Epstein, Jose (1985), B.S., Licenciada, Universidad Technica de Oruro, Bolivia; Licenciada, Universidad Mayor de San Andres, Bolivia; Economist in-Residence.

Evans, F. Barton (1988), B.A., Tufts University; M.Ed., Ph.D., The American University; Assistant Professor of Psychology.

Farer, Tom J. (1987), B.A., Princeton University; J.D., Harvard Law School; Professor of International Service.

Farsoun, Samih K. (1973), A.B., Hamilton College; M.A., Ph.D., University of Connecticut; Associate Professor of Sociology.

Ferren, Ann (1985), A.B., Radcliffe College; M.A.T., Harvard Graduate School of Education; Ed.D., Boston University; Associate Professor of Education and Associate Dean of Faculties.

Finan, John J. (1961), A.B., A.M., Washington University; Ph.D., Harvard University; Professor of International Service.

Finn, Richard B. (1988), A.B., L.B., Harvard University; Diplomati-in-Residence of International Service.

Firdywek, Yitna (1988), B.A., Virginia Polytechnic Institute and State University; M.A., Brown University; M.A., George Mason University; Writing Instructor of Literature.

Fishel, Jeff (1979), B.A., M.A., San Diego State College; Ph.D., University of California, Los Angeles; Professor of Government and Public Administration.

Floro, Maria Sagrario (1988), B.S., University of Philippines; M.A., Monash University, Australia; Ph.D., Stanford University; Assistant Professor of Economics.

Flournoy, Nancy (1988), B.S., M.S., University of California, Los Angeles; Ph.D., University of Washington; Associate Professor of Mathematics and Statistics.

Foley, Robert T. (1967), B.S., University of Massachusetts; M.S., Lafayette College; Ph.D., University of Texas; Professor Emeritus of Chemistry.

Fong, Daniel (1988), B.A., University of California, Berkeley; M.S., University of Oklahoma; Ph.D., Northwestern University; Assistant Professor of Biology.

Ford, Gary T. (1985), B.B.A., Clarkson College of Technology; M.B.A., Ph.D., State University of New York at Buffalo; Professor of Business Administration.

Foreman, Christopher H. (1988), B.A., M.A., Ph.D., Harvard University; Assistant Professor of Government.

Fox, Charles (1987), M.A., Johns Hopkins University; Assistant Professor of Communications.

Fox, Richard H. (1970), A.B., Northwestern University; Ph.D., University of Hawaii; Associate Professor of Biology.

Fox, Robert P. (1971), B.S., M.S., Georgetown University; Ph.D., University of Illinois; Professor of Language and Foreign Studies.

Fralley, Robert H. (1949), B.S., M.A., The American University; Professor Emeritus of Health and Fitness.*

Frame, Michael (1986), B.S., University of Maryland; M.Sc., The George Washington University; Assistant Professor of Computer Science and Information Systems.

French, Valerie (1972), B.A., Cornell University; M.A., Ph.D., University of California, Los Angeles; Associate Professor of History.

Furber, Lincoln M. (1977), B.A., Middlebury College; M.S., Columbia University; Associate Professor of Communication.

Fyfe, James J. (1979), B.A., John Jay College; M.A., Ph.D., State University of New York at Albany; Professor of Justice.*

Gabriel, Ralph H. (1958), B.A., M.A., Ph.D., Yale University; University Professor Emeritus of International Service.

Gallup, Stephen V. (1988), B.A., Pomona College; Master of Letters, St. Anthony's College, Oxford; Ph.D., University of California; Assistant Professor of International Service.

Gannon, William H. (1970), B.A., D.B.A., The George Washington University; M.A., The American University; Associate Professor Emeritus of Technology and Administration.

Garrard, Mary D. (1964), B.A., Newcomb College; M.A., Radcliffe College; Ph.D., Johns Hopkins University; Professor of Art.

Geiser, Daniel S. (1966), B.A., Juniata College; M.A., Ohio State University; Ed.D., Columbia University; Professor Emeritus of Health and Fitness.

Gimble, Josephine G. (1966), B.A., The American University; M.S.N., The Catholic University of America; M.P.H., Dr.P.H., Johns Hopkins University; Professor Emerita of Nursing.

Glard, James E. (1979), B.A., Lewis College; Ph.D., Pennsylvania State University; Professor of Chemistry.*

Glazer, Herbert (1968), A.B., A.M., Ph.D., Boston University; Professor of Business Administration.*

- Glenn, Vicki** (1986), B.A., Macalester College; Instructor of Communications.
- Goddard, Kathryn Ann** (1988), B.S., Gettysburg College; M.S., Bucknell University; Ph.D., University of Connecticut; Assistant Professor of Biology.
- Gold, Kenneth A.** (1983), B.A., City College of New York; M.A., Ph.D., Pennsylvania State University; Assistant Professor of International Service.
- Goldn, Jessica W.** (1966), B.A., Long Island University; M.A., Columbia University; Associate Professor of Language and Foreign Studies.
- Goldman, Robert K.** (1971), B.A., University of Pennsylvania; J.D., University of Virginia; Professor of Law.
- Gondos, Dorothy D.** (1947), B.A., Swarthmore College; M.A., Ph.D., University of Pennsylvania; Professor Emerita of History.
- Goodman, Charles H.** (1956), B.S.C., Wilson Teachers College; M.S.C., Ph.D., Pennsylvania State University; Professor Emeritus of International Service.
- Goodman, Louis W.** (1986), A.B., Dartmouth College; M.A., Ph.D., Northwestern University; Professor and Dean of the School of International Service.
- Gordon, Nancy S.** (1978), A.B., Mount Holyoke College; Ph.D., Boston University; Associate Professor of Chemistry.
- Gorman, Ronald H.** (1969), B.A., M.B.A., University of Cincinnati; Ph.D., Ohio State University; Associate Professor of Business Administration.
- Graham, Fred C.** (1988), B.A., Gettysburg College; Ph.D., University of Virginia; Assistant Professor of Economics.
- Graham, Michael T.** (1973), B.A., University of Pennsylvania; M.F.A., Yale University; Associate Professor of Art.
- Gray, Dahlia** (1988), B.S., Eastern Oregon State College; M.B.A., Portland State University; Ph.D., The George Washington University; Associate Professor of Business Administration.
- Gray, James J.** (1970), B.A., Maryknoll College; M.A., Ph.D., Fordham University; Professor of Psychology.
- Gray, Mary W.** (1968), A.B., Hastings College; M.A., Ph.D., University of Kansas; J.D., The American University; Professor of Mathematics and Statistics.
- Grebe, Stephen C.** (1976), A.B., University of Pennsylvania; Ph.D., University of Texas; Associate Professor of Biology.
- Greenberg, Gershon** (1973), B.A., Bard College; Ph.D., Columbia University; Associate Professor of Philosophy and Religion.
- Greenberg, Milton** (1980), B.A., Brooklyn College; M.A., Ph.D., University of Wisconsin; Professor of Government and Public Administration and Provost/Vice President for Academic Affairs.
- Greene, Michael A.** (1976), B.A., Columbia University; Ph.D., Carnegie-Mellon University; Associate Professor of Mathematics and Statistics.
- Gregg, Robert W.** (1970), A.B., Colgate University; Ph.D., Cornell University; Professor of International Service.
- Griffith, Ernest S.** (1958), A.B., Hamilton College; D.Phil., Oxford University; University Professor and founding Dean Emeritus of the School of International Service.
- Gross, Chalmers A.** (1959), B.A., M.S., University of Illinois; Ph.D., University of Chicago; Professor Emeritus of Education.
- Grossman, Claudio** (1983), Licenciado en Ciencias Jurisdicta Y Sociales, University of Chile; Doctor in Law, University of Amsterdam; Professor of Law.
- Gunning, James Patrick** (1988), B.A., University of Delaware; Ph.D., Virginia Polytechnic and State University; Visiting Associate Professor of Justice, Law, and Society.
- Guttman, Egon** (1968), LL.B., LL.M., Northwestern University; Professor of Law.
- Hacker, Marilyn** (1989), B.A., New York University; Distinguished Writer in Residence.
- Hager, Mark M.** (1987), A.B., Amherst College; M.A., Harvard University; J.D., Harvard Law School; Ph.D., Harvard University; Visiting Assistant Professor of Law.
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- Sweeney, Jennifer K.** (1989). B.A., State University of New York; M.S., Catholic University of America; Assistant Librarian of University Library.
- Vogelsson, Diana** (1975). B.A., Kalamazoo College; M.L.S., University of Maryland; M.A., The American University; Librarian.
- Zich, Joanne A.** (1983). A.B., Washington University; M.S., Columbia University; Associate Law Librarian.

1988-1989 Adjunct Faculty

The faculty list below covers the 1988-1989 academic year only.

- Aaronson, Susan** (1988). B.A. Harpur College; M.A., Columbia University; Lecturer of Business Administration.
- Abbott, Paola** (1988). M.A., Catholic University; Lecturer of Languages and Foreign Studies.
- Abdelkader, Zerougui** (1988). B.A., University of Constantine; M.A., The American University; Lecturer of Sociology.
- Abert, James G.** (1988). B.S., University of South Carolina; Ph.D., Duke University; Adjunct Professor of Business Administration.
- Abourezk, James G.** (1989). B.S., South Dakota School of Mines and Technology; J.D., University of South Dakota School of Law; Adjunct Professor of the School of International Service.
- Abramson, Fredric** (1989). A.B., University of Pennsylvania; M.S., University of Rochester; Ph.D., University of Michigan; S.M., Massachusetts Institute of Technology; Associate Professor of Business Administration.
- Abu-Fadil, Magda** (1985). B.A., M.A., The American University; Lecturer of Communication.
- Acevedo, Domingo** (1985). Abogado, Universidad Buenos Aires; M.C.L., Georgetown Law Center; Adjunct Professor of Law.
- Adama, David G.** (1986). B.A., University of Southwestern Louisiana; J.D., New York University School of Law; Professorial Lecturer of Law.
- Adrien, Marie-Helene** (1986). B.S., M.A., McGill University; Lecturer of Language and Foreign Studies.
- Agassi, Daniel** (1988). M.S., The Hebrew University; Ph.D., The Weizmann Institute; Professorial Lecturer of Mathematics and Statistics.
- Alauddin, Arif** (1985). B.S., University of Engineering and Technology in Pakistan; M.B.A., Quaid-i-Azam University; M.S., Massachusetts Institute of Technology; M.A. Harvard University; Lecturer of Computer Science and Information Systems.
- Alcala, Antonio** (1988). B.A., M.F.A., Yale University; Lecturer of Art.
- Alden, Judith A.** (1987). B.S., Kent State University; M.A., North-

- eastern University; M.B.A., The George Washington University; Lecturer of Business Administration.
- Alessio, Helaine Mary** (1986), B.S., Rutgers University; M.S., Ithaca College; Ph.D., University of Maryland; Professorial Lecturer of Health and Fitness.
- Alexander, Susan H.** (1988), B.A., M.A., The American University; Lecturer of Sociology.
- Alexander, William Henry** (1985), B.A., Fisk University; M.A., Ph.D., Stanford University; Professorial Lecturer of History.
- Alldridge, Valerie R.** (1988), B.A., Duquesne University; M.A., University of Maryland; Professorial Lecturer of Communication.
- Alonso, Jose** (1986), Licenciado, University of Oriente; Lecturer of Mathematics and Statistics.
- Alpern, Anita** (1979), B.A., University of Wisconsin; Distinguished Adjunct Professor in Residence of Government and Public Administration.
- Alpher, Rose** (1972), B.A., Hunter College; M.S.W., Columbia University; Professorial Lecturer of Education.
- Alpin, Donald** (1987), B.A., Pomona College; J.D., Antioch School of Law; Lecturer of Law.
- Amirthanayagam, Guy** (1987), B.A., University of Sri Lanka; M.A., Syracuse University; Lecturer of Literature.
- Anderson, David L.** (1985), B.S., Towson State University; J.D., University of Maryland; Lecturer of Law.
- Anderson, Michele Jean** (1982), B.A., Northwestern University; J.D., Georgetown University; Professorial Lecturer of Law.
- Anderson, Tammy L.** (1987), M.A., University of Pittsburgh; M.S., The American University; Lecturer of Communication.
- Andrews, Meade** (1988), B.A., Mary Washington College; M.A., University of Maryland; Ph.D., University of Georgia; Adjunct Professor of Performing Arts.
- Andrisan, Linda** (1989), B.A., Wheaton College; M.A., Ph.D., Emory University; Professorial Lecturer of Literature.
- Annis, John P.** (1986), B.A., Gettysburg College; M.B.A., Pace University; Professorial Lecturer Business Administration.
- Anthony-Buckman, Jane** (1985), B.F.A., Marymount College of Virginia; M.F.A., The American University; Professorial Lecturer of Art.
- Argrett, Loretta Collins** (1988), B.S., Howard University; J.D., Harvard University; Adjunct Professor of Law.
- Arnino, Joseph A.** (1988), B.A., Johns Hopkins University; Lecturer of International Service.
- Armstrong, Adrienne** (1987), B.A., Boston University; M.A., Ph.D., Northwestern University; Professorial Lecturer of Government and Public Administration.
- Arnauet, Martin** (1976), B.A., University of Notre Dame; M.S., Ph.D., Georgetown University; Professorial Lecturer of Language and Foreign Studies.
- Arvanitopoulos, Costos** (1988), B.A., Pantios School of Political Science; M.A., The American University; Lecturer of International Service.
- Atkins, G. Pope** (1970), B.A., University of Texas; M.A., Ph.D., The American University; Adjunct Professor of International Service.
- Atkins, Reynolds** (1988), B.S., University of Kansas; M.S., The American University; Lecturer of Business Administration.
- Auffret, Jean-Pierre** (1984), B.S., Duke University; M.B.A., University of Virginia; Lecturer of Business Administration.
- Austern, David T.** (1980), B.A., University of Pennsylvania; LL.B., Yale University; Professorial Lecturer of Law.
- Awartani, Nihaya M.** (1987), B.S., The American University of Beirut; M.A., The American University; Lecturer of Mathematics and Statistics.
- Bagwell, Timothy C.** (1988), B.A., B.S., M.S., Southern Illinois University; Lecturer of Communication.
- Balley, Brian** (1988), B.A., Graceland College; B.S.E.E., Kansas State University; Lecturer of Physics.
- Band, Joseph** (1975), B.S., M.A., J.D., The American University; Professorial Lecturer of Business Administration.
- Baneth, Gigi** (1987), French Baccalaureat, Licence D'Anne Dglaix (M.A.), Sorbonne; Lecturer of Languages and Foreign Studies.
- Barkley, Bruce T.** (1983), B.A., Wittenburg University; M.A., University of Cincinnati; M.P.A., University of Southern California; Professorial Lecturer of Computer Science and Information Systems.
- Barlow, James J.** (1988), B.A., Carleton College; M.A., Ph.D., Claremont Graduate School; Professorial Lecturer of Government.
- Barrett, Jerome T.** (1985), B.A., College of St. Thomas; M.A., University of Minnesota; Ed.D., The George Washington University; Lecturer of Business Administration.
- Barrett, Mary Ellen** (1969), B.A., Mary Manse College; M.A.T., Georgetown University; Professorial Lecturer of Languages and Foreign Studies.
- Barwick, William Allen** (1979), B.S., College of William and Mary; M.S., Ph.D., The American University; Adjunct Professor of Physics.
- Bates, Thelma Inez** (1984), B.S., University of Maryland; M.S., The Catholic University of America; Lecturer of Nursing.
- Batz, Catherine** (1987), B.A., Dunbarton College; M.F.A., The American University; Lecturer of Art.
- Beach, Richard** (1988), A.A., Prince George's Community College; B.A., University of Maryland; M.Ed., Bowie State College; Lecturer of Justice.
- Beard, Susan F.** (1988), B.A., Pomona College; J.D., U.C.L.A., Lecturer of Law.
- Beatty, Mary Lou** (1988), B.S., Marquette University; Professorial Lecturer of Communication.
- Beck, Alan W.** (1988), B.A., Kenyon College; M.A., St. Mary's University; M.P.A., D.P.A., University of Southern California; Adjunct Professor of Business Administration.
- Becker, Joseph A.** (1984), B.A., Western Connecticut State College; M.A., The American University; Professorial Lecturer of Communication.
- Bedlington, Anne H.** (1987), A.B., Pembroke College; Ph.D., Cornell University; Adjunct Professor of Government and Public Administration.
- Benes, Carolina Maria** (1986), Computadora Cientifica; Licenciada en Ciencias de la Computacion, University of Buenos Aires; Lecturer of Computer Science and Information Systems.
- Benigni, Helen** (1985), B.A., M.A., West Virginia University; Lecturer of Literature.
- Bennett, Allegra** (1988), B.A., Herbert H. Lehman College; Professorial Lecturer of Communication.
- Bennett, James F.** (1987), B.A., The Catholic University of America; Master of Urban and Environmental Planning, University of Virginia; Lecturer of Government and Public Administration.
- Bennett, Susan** (1985), B.A., M.A., Yale University; J.D., Columbia University; Lecturer of Law.
- Bennett, Willis** (1969), Professorial Lecturer of Performing Arts.
- Benson, Elizabeth P.** (1987), B.A., Wellesley College; M.A., The Catholic University of America; Adjunct Professor of Art.
- Benson, Sandra D.** (1989), B.A., Baylor University; M.A., The American University; J.D., The American University, Washington College of Law; Lecturer of Law.
- Bercaw, John A.** (1989), B.A., M.A., University of Maryland; Lecturer of Health and Fitness.
- Berenbaum, Michael** (1987), A.B., Queens College; Ph.D., Florida State University; Adjunct Professor of Jewish Studies.
- Berens, Michael** (1985), B.A., M.A., Ph.D., University of California; Professorial Lecturer of Literature.
- Berenson, William M.** (1984), A.B., Dartmouth College; M.A., Ph.D., Vanderbilt University; Professorial Lecturer of Law.
- Bergman, Larry E.** (1988), S.B., Massachusetts Institute of Technology; J.D., Boston College Law School; Lecturer of Law.
- Berman, Helaine** (1988), B.F.A., Philadelphia College of Art; M.S., City University of New York; Lecturer of Languages and Foreign Studies.
- Berman, Lisa M.** (1989), B.A., Brandeis University; M.A., Ph.D., Louisiana State University; Professorial Lecturer of Psychology.
- Bernardi, Lynn** (1989), B.A., Pennsylvania State University; Lecturer of Communication.
- Berney, Ellen Jo** (1986), A.A., Montgomery College; B.A., Roosevelt University; M.A., The American University; Lecturer of Language and Foreign Studies.
- Bernsen, Sam** (1984), B.A., New York State University; LL.B., Brooklyn Law School; Adjunct Professor of Law.
- Berry, James H.** (1989), B.A., Wesleyan University; J.D., M.A., Columbia University; Professorial Lecturer of Government.
- Bershon, Barbara L.** (1987), B.S., M.A., Ohio State University;

- Ph.D., University of Maryland; Professorial Lecturer of Psychology.
- Berline, Nancy T.** (1988), B.A., Howard University; J.D., Northwestern University; LL.M., University of Wisconsin; Professorial Lecturer of Law.
- Bertin, Michael** (1989), B.A., George Washington University; M.A., Yale Drama School; Lecturer of Literature.
- Beyer, John C.** (1982), B.A., University of the Pacific; M.A., M.A.L.D., Ph.D., Tufts University; Adjunct Professor of International Service.
- Biggs, Gonzalo** (1988), M.A., George Washington University; J.D., University of Chile; Adjunct Professor of Law.
- Bigman, Laura** (1988), B.A., Georgetown University; M.A., Ph.D., Howard University; Professorial Lecturer of International Service.
- Elly, Jay A.** (1986), B.S., Ashland College; M.S., University of Delaware; Lecturer of Health and Fitness.
- Blitler, Doris A.** (1986), B.A., Dickinson College; M.A., Hollins College; Lecturer of Psychology.
- Bjork, John R.** (1985), B.A., Western Michigan University; M.A., The American University; Professorial Lecturer of Computer Science and Information Systems.
- Blackwell, William S.** (1976), B.A., University of Richmond; Professorial Lecturer of Communication.
- Blank, Lorraine** (1984), B.A., M.A., University of Connecticut; Adjunct Professor of Government and Public Administration.
- Blodgett, Steven A.** (1981), B.S., M.A., Central Michigan University; Professorial Lecturer of International Service.
- Bogrow, Jan P.** (1978), B.S., University of Rhode Island; M.Ed., Lesley College; Lecturer of Education.
- Bohun-Chudyniv, Boris** (1987), Columbia University; M.A., The American University; Professorial Lecturer of Physics.
- Bolduan, Ruth** (1984), B.A., M.F.A., The American University; Lecturer of Art.
- Bolton, Alfred A.** (1988), B.S., West Virginia University; M.A., Goddard College; D.B.A., Northern Virginia Community College; Professor Lecturer of Business.
- Booth, Brandon J.** (1987), B.A., Reed College; M.S., University of Oregon; Lecturer of Mathematics and Statistics.
- Bona, Vittorio** (1987), B.Sc., University of Asmara; M.Sc., St. Bonaventure University; Lecturer of Mathematics and Statistics.
- Boroujerdi, Mehrzad** (1988), B.A., Boston University; M.A., Northeastern University; Lecturer of International Service.
- Boulay, Sheila** (1981), B.S., University of Arizona; M.S., The American University; Lecturer of Biology.
- Bowen, Elizabeth LP.** (1988), B.A., Tulane University; J.D., Washington College of Law; Lecturer of Law.
- Bowen, Susan** (1985), B.B.A., The George Washington University; Lecturer of Computer Science and Information Systems.
- Bowie, Barbara K.** (1987), B.A., College of Notre Dame; M.A., Ed.D., The Catholic University of America; Professorial Lecturer of Education.
- Bowles, Judith** (1986), B.A., Duke University; M.F.A., The American University; Lecturer of Literature.
- Brackshaw, Susan L.** (1986), B.A., University of Massachusetts; J.D., The American University; Lecturer of Law.
- Braden, Dennis** (1986), B.A., University of Northern Colorado; M.A., University of Colorado, Boulder; Lecturer of Literature.
- Bradlow, Daniel D.** (1988), B.A., University of Witwatersrand; J.D., Northeastern University Law School; M.L.I.C., Georgetown University Law Center; Professorial Lecturer of Law.
- Brantley, Chris J.** (1989), B.A., Mercer University; M.A., The American University; J.D., The American University, Washington College of Law; Lecturer of Law.
- Brantley, Jill N.** (1988), B.A., Pomona College; M.A., Ph.D., University of Kansas; Professorial Lecturer of Sociology.
- Braher, Charles N.** (1986), B.A., M.A., University of Colorado at Boulder; Lecturer of Government and Public Administration.
- Brennan, Joseph P.** (1968), A.B., University of Notre Dame; M.B.A., The American University; Adjunct Professor of Business Administration.
- Brennan, Louise Gentry** (1986), B.A., Middlebury College; M.A., University of Virginia; Lecturer of Literature.
- Brice, Luther K., Jr.** (1986), B.A., Harvard University; M.A., Dartmouth College; Ph.D., Duke University; Adjunct Professor of Chemistry.
- Broadus, William** (1976), B.S., Eastern Kentucky University; M.S.A., The George Washington University; Adjunct Professor of Business Administration.
- Brody, Evan B.** (1988), B.S.E., State University of New York at Cortland; M.A., University of Maryland; Lecturer of Psychology.
- Brooks, Jane** (1979), A.B., A.M., Smith College; Lecturer of Literature.
- Brosvic, Gary** (1985), B.S., John Carroll University; M.A., The American University; Lecturer of Psychology.
- Brouard, Scott F.** (1985), A.A., Montgomery College; B.A., M.A., The American University; Lecturer of Art.
- Brown, Barry** (1978), B.S., Pennsylvania State University; M.P.A., The American University; Adjunct Professor of Business Administration.
- Brown, Bethany J.** (1986), B.A., University of Maryland at Baltimore; M.A., University of Arizona; Lecturer of Literature.
- Brown, David C.** (1977), B.A., The American University; M.A., M.Phil., Ph.D., Rutgers University; Adjunct Professor of Government and Public Administration.
- Brown, Elizabeth** (1985), B.A., Rutgers University; M.S., Northwestern University; Lecturer of Communication.
- Brown, Joan Taylor** (1985), B.A., Fisk University; M.A., Atlanta University; Lecturer of Literature.
- Browning, Frank** (1987), B.A., University of Michigan; Professorial Lecturer of Communication.
- Bruce, James** (1987), B.A., M.A., Kent State University; Ph.D., University of Denver; Adjunct Professor of International Service.
- Burch, Kurt** (1988), B.A., George Mason University; M.A., The American University; Lecturer of International Service.
- Burge, James C.** (1985), B.S., Mississippi State University; Lecturer of Business Administration.
- Burke, Kathleen** (1987), B.A., Loyola College; M.A., Oxford University; Ph.D., University of Maryland; Lecturer of Literature.
- Burnam, Renee George** (1987), A.B., Smith College; M.A., Syracuse University; Lecturer of Art.
- Burns, Kathleen M.** (1988), B.A., Clarke College; M.A., University of Wisconsin; Professorial Lecturer of Communication.
- Bykov, Joseph** (1987), Special Music School, Kiev; Tchaikovsky Conservatory of Music; Adjunct Professor of Performing Arts.
- Byrum, Marni E.** (1988), B.A., Virginia Polytechnic Institute; J.D., Pepperdine University; Lecturer of Law.
- Cabrera-Santos, Nancy** (1987), B.A., Beloit College; M.S.P.H., University of Pittsburgh; Lecturer of Business Administration.
- Callahan, Marie-France** (1985), Degree of Arts and Letters, University of Paris VII; Maîtrise des Langues Etrangères Appliquées, Ecole Supérieure d'Interprètes et des Traducteurs de la Sorbonne; Lecturer of Language and Foreign Studies.
- Calnan, Eugene T.** (1979), B.S., U.S. Naval Academy; M.A., Virginia Polytechnic University; Professorial Lecturer of Business Administration.
- Calvano, Nikki** (1986), B.S., State University of New York; M.A., J.D., Creighton University; Lecturer of Law.
- Canan, Russell F.** (1987), B.A., Syracuse University; J.D., Antioch School of Law; Professorial Lecturer of Law.
- Canner Stephen** (1989), Ph.D., Clark University; Professorial Lecturer of International Service.
- Cantor, David** (1986), A.B., M.S., Ph.D., University of Illinois; Professorial Lecturer of Justice.
- Cantor, David** (1986), B.A., Grinnell College; M.F.A., George Mason University; Lecturer of Literature.
- Caplan, Leslie J.** (1988), B.A., Case Western Reserve University; M.A., Ph.D., University of Iowa; Professorial Lecturer of Psychology.
- Capshe, James H.** (1987), Indiana University; Ph.D., University of Pennsylvania; Professorial Lecturer of Psychology.
- Carlson, Bruce A.** (1987), B.S.B.A., M.B.A., University of Akron; J.D., The American University; Lecturer of Business Administration.
- Carlton, John S.** (1988), B.A., Wake Forest University; J.D., The American University; Lecturer of Law.
- Carnahan, Cheryl R.** (1985), B.A., Dakota Wesleyan University; M.A., Eastman School of Music; M.A., The American University; Professorial Lecturer of Performing Arts.

- Carper, Leslie** (1988), B.F.A., Virginia Commonwealth University; M.F.A., University of Iowa Writer's Workshop Lecturer of Literature.
- Carroll, Thomas** (1987), A.B., Western Reserve University; M.S., Ph.D., Cornell University; Adjunct Professor of International Service.
- Carter, Martha** (1986), B.S., Purdue University; M.B.A., The Wharton School; Lecturer of Business.
- Carter, Patricia** (1985), B.A., M.A., The George Washington University; Lecturer of Literature.
- Cascio, Charles E.** (1976), B.S., Wagner College; M.A., The American University; Professorial Lecturer of Communication.
- Casey, Victoria** (1987), B.A., Cornell University; M.A., Ph.D., University of Florida; Professorial Lecturer of Psychology.
- Castell, Patricia** (1989), B.A., George Washington University; M.A., Temple University; Ph.D., University of Maryland; Professorial Lecturer of Literature.
- Chakrabarti, Alok K.** (1988), B.Ch.E., Jadavpur University; M.B.A., Indian Institute of Management; Ph.D., Northwestern University; Adjunct Professor of Business Administration.
- Chambers, Matthew A.** (1988), A.B., Duke University; J.D., University of Michigan; Lecturer of Law.
- Chang, Te-An** (1986), B.S., National Taiwan University; M.S., Emporia University; M.S., University of Kansas; M.S., The American University; Lecturer of Mathematics and Statistics.
- Chase, Barbara** (1980), B.A., Syracuse University; M.A., The George Washington University; Professorial Lecturer of Language and Foreign Studies.
- Chasay, Paul L.** (1989), Ph.D., University of Colorado; J.D., University of Michigan; Professorial Lecturer of Law.
- Chatterjee, Usasi** (1981), B.A., M.A., University of Kent at Canterbury; Ph.D., McGill University; Professorial Lecturer of Language and Foreign Studies.
- Checkley, John M.** (1988), B.A., Michigan State University; M.A., Butler University; Professorial Lecturer of Communication.
- Chepko, Gloria J.** (1989), B.A., Marietta College; Ph.D., George Washington University; Professorial Lecturer of Biology.
- Child, Margaret S.** (1987), B.A., Mount Holyoke College; M.A., Ph.D., University of Maryland; Professorial Lecturer of History.
- Chinoy, Marc** (1982), B.A., Amherst College; Professorial Lecturer of Communication.
- Cirafrici, Peter** (1981), A.A.S., Brooklyn College; B.S.B.A., University of Bridgeport; M.S., University of Miami; Professorial Lecturer of Business Administration.
- Clair, Maxine** (1985), B.S., University of Kansas; M.F.A., The American University; Lecturer of Literature.
- Clapham, Gerald B.** (1984), B.S., Saint Francis College; M.B.A., George Mason University; Lecturer of Business Administration.
- Clark, Margaret** (1988), B.A., Columbia University; J.D., Catholic University; Lecturer of Law.
- Claudy, Lynn D.** (1984), B.A., B.S., Washington University; M.S., Illinois Institute of Technology; Professorial Lecturer of Physics.
- Click, David Lee** (1984), B.A., University of California, Los Angeles; J.D., The American University; Lecturer of Law.
- Cochrane, D. Glynn** (1988), B.A., University of Dublin; M.A., Trinity College; M.A., Ph.D., Oxford University; Scholar-in-Residence, Anthropology.
- Cohn, Sandra** (1984), B.A., M.A., The American University; Lecturer of Language and Foreign Studies.
- Coleman, Sandra S.** (1988), B.S., Northern State College; J.D., University of South Dakota; Lecturer of Law.
- Collar, Kevin** (1988), B.A., University of Wisconsin; Lecturer of Performing Arts.
- Collins, Kathleen** (1986), B.S.Ed., University of Kansas; M.A., Ph.D., The Catholic University of America; Professorial Lecturer of Language and Foreign Studies.
- Colosi, Thomas** (1988), Adjunct Professor of Law.
- Comarow, Murray** (1976), LL.B., National University School of Law; Distinguished Adjunct Professor in Residence of Government and Public Administration.
- Combs, Gary W.** (1984), B.B.A., Baylor University; Ph.D., University of Southern California; Adjunct Professor of Government and Public Administration.
- Comtols, Joseph** (1986), B.S., University of Connecticut; M.P.A., George Mason University; Lecturer of Business Administration.
- Connolly, Joseph G., Jr.** (1982), B.A., Manhattan College; J.D., Georgetown University; Adjunct Professor of Law.
- Connor, Ann M.** (1982), B.S., St. Joseph College; M.S., Virginia Polytechnic Institute; Adjunct Professor of Health and Fitness.
- Connor, Susan S.** (1988), B.A., University of Michigan; J.D., Harvard Law School; Professorial Lecturer of Law.
- Contos, Harry** (1977), B.A., Northeastern University; M.S., The George Washington University; Adjunct Professor of Computer Science and Information Systems.
- Cooke, Timothy W.** (1985), B.S., George Mason University; M.A., Ph.D., Johns Hopkins University; Lecturer of Government and Public Administration.
- Cooper, Benjamin S.** (1984), B.A., Swarthmore College; Ph.D., University of Virginia; Professorial Lecturer of Physics.
- Cortecelli, Padi** (1989), B.A., M.A., University of Bologna; Lecturer of Languages and Foreign Studies.
- Cotter, James T.** (1978), B.A., Marquette University; Adjunct Professor of International Service.
- Couts, Gilbert** (1971), B.A., Texas Christian University; Ph.D., Georgetown University; M.S., The American University; Professorial Lecturer of Language and Foreign Studies.
- Coyne, Edward** (1984), B.A., M.A., Case Institute of Technology; M.A., The American University; Ph.D., Georgetown University; Professorial Lecturer of Computer Science and Information Systems.
- Craig, Peggy A.** (1987), B.A., New York University; Lecturer of Art.
- Crandall, JoAnn** (1986), B.A., Ohio University; M.A., University of Maryland; M.S., Ph.D., Georgetown University; Professorial Lecturer of Language and Foreign Studies.
- Crisman, Louise T.** (1984), B.A., Middlebury College; M.A., The American University; Ph.D., University of Maryland; Professorial Lecturer of Language and Foreign Studies.
- Critchfield, Lucinda** (1977), B.A., Indiana University of Pennsylvania; M.A., The American University; Professorial Lecturer of Language and Foreign Studies.
- Croce, Ann J.** (1986), B.A., Yale University; M.A., Brown University; Lecturer of Literature.
- Crosby, Robert Douglas** (1975), A.B., University of Virginia; M.S., University of Arizona; Ph.D., University of California, Los Angeles; Professorial Lecturer of Mathematics and Statistics.
- Crowl, Vaughn Dana** (1987), B.S., Frostburg State College; M.Ed., M.S., Johns Hopkins University; Professorial Lecturer of Education.
- Cruse, Carol J.** (1983), B.A., Dickinson College; M.A., Middlebury College; Lecturer of Language and Foreign Studies.
- Crutchfield, E. B.** (1985), B.A., M.A., The American University; Professorial Lecturer of Physics.
- Cruz, Paula** (1987), B.A., Webster College; M.A.T., Fordham University; Lecturer of International Service.
- Culver, Ann** (1988), Lecturer of Health and Fitness.
- Culver, Marguerite M.** (1988), B.A., The American University; M.A., University of North Carolina at Chapel Hill; Lecturer of Literature.
- Currie, Robert D.** (1988), B.A., DePaul University; M.A., University of Illinois; a.B.D., Columbia University; Lecturer of Literature.
- Curtin, Madelyn** (1987), B.A., Rice University; M.A., Ph.D., University of Virginia; Professorial Lecturer of Literature.
- Czarna, Fred R.** (1987), B.S., Mount Saint Mary's College; M.A., University of Scranton; Ed.D., The George Washington University; Professorial Lecturer of Education.
- Czechanski, James P.** (1987), B.S., Indiana University; M.S., The American University; Lecturer of Physics.
- Dalali, Hadi** (1983), B.S., The American University; Professorial Lecturer of Computer Science and Information Systems.
- Dale, Charles J.** (1986), B.S., Kent State University; M.S., University of Georgia; M.D.S., Ph.D., Georgia State University; Professorial Lecturer of Business Administration.
- Dallman, Mary Ellen** (1989), B.A., Mount Mary College; M.Ed., Xavier University; D.Ed., Ball State University; Professorial Lecturer of Education.
- Damato, Mary Jane** (1988), B.A., Bucknell University; J.D., The American University; Lecturer of Law.
- D'Aquino, Iria** (1986), B.A., Queens College; City University of New York; M.A., Ph.D., University of Illinois; Professorial Lecturer of

Anthropology.

- Darnell, William G.** (1988), B.A., University of Buffalo; M.A., Ph.D., Michigan State University; Adjunct Professor of Business Administration.
- Darr, Ann** (1982), B.A., State University of Iowa; Adjunct Professor of Literature.
- Darsie, Janet B.** (1985), B.A., University of Delaware; M.F.A., The Maryland Institute; Professorial Lecturer of Communication.
- Davidow, Joel** (1988), A.B., Princeton University; LL.B., Columbia Law School; Adjunct Professor of Law.
- Davis, Robert N.** (1986), B.A., The University of Hartford; J.D., Georgetown University Law Center; Professorial Lecturer of **Davis-Sbaehing, Cynthia** (1986), B.A., Boston College; M.A., Georgetown University; Lecturer of Literature.
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Index of Courses and Course-Number Prefixes

American Studies (02)	233	Jewish Studies (34)	293
Anthropology (03)	234	Justice, Law, and Society (73)	337
APEL (77)	343	Language and Foreign Studies	
Art: Art History (07)	238	Advanced and Topics (37)	296
Art: Studio (05)	237	Elementary and Intermediate (36)	295
Audio Technology (50)	308	Linguistics (38)	300
Biology (09)	241	Literature (23)	272
Business Administration		Mathematics (41)	303
Accounting and Taxation (14)	252	Performing Arts: Music, Theatre, Dance, and Arts Management (67)	331
Finance and Real Estate (13)	249	Performing Arts: Applied Music (68)	336
International Business (12)	248	Philosophy (60)	325
Management (10)	244	Physics (51)	309
Marketing (11)	247	Psychology (57)	322
Chemistry (15)	254	Public Administration (54)	315
Communication (17)	258	Public Financial Management (28)	279
Community Studies (71)	336	Religion (61)	328
Computer Science (40)	301	Sociology (65)	329
Economics (19)	263	Statistics (42)	304
Education (21)	268	Study Abroad (92, 94, 95)	343
English Language Institute (74)	341	University Honors (01)	233
Government (53)	311	Washington Semester (56)	322
Health and Fitness (49)	306	Women's Studies (76)	342
History (29)	280		
Information Systems (55)	319		
Interdisciplinary Studies (75)	342		
International Service (33)	287		

Index by Course-Number Prefix

01	University Honors (p. 233)	41	Mathematics (p. 303)
02	American Studies (p. 233)	42	Statistics (p. 304)
03	Anthropology (p. 234)	49	Health and Fitness (p. 306)
05	Art: Studio and Design (p. 237)	50	Audio Technology (p. 308)
07	Art: Art History (p. 238)	51	Physics (p. 309)
09	Biology (p. 241)	53	Government (p. 311)
10	Business Administration (p. 244)	54	Public Administration (p. 315)
11	Business Administration (p. 247)	55	Information Systems (p. 319)
12	Business Administration (p. 248)	56	Washington Semester (p. 322)
13	Business Administration (p. 249)	57	Psychology (p. 322)
14	Business Administration (p. 252)	60	Philosophy (p. 325)
15	Chemistry (p. 254)	61	Religion (p. 328)
17	Communication (p. 258)	65	Sociology (p. 329)
19	Economics (p. 263)	67	Performing Arts: Dance, Music, Theatre, and Arts Management (p. 331)
21	Education (p. 268)	68	Performing Arts: Applied Music (p. 336)
23	Literature (p. 272)	71	Community Studies (p. 336)
28	Public Financial Management (p. 279)	73	Justice (p. 337)
29	History (p. 280)	74	English Language Institute (p. 341)
33	International Service (p. 287)	75	Interdisciplinary Studies (p. 342)
34	Jewish Studies (p. 293)	76	Women's Studies (p. 342)
36	Language and Foreign Studies: Elementary and Intermediate (p. 295)	77	APEL (p. 343)
37	Language and Foreign Studies: Advanced and Topics (p. 296)	92-95	Study Abroad (p. 343)
38	Language and Foreign Studies: Linguistics (p. 300)		
40	Computer Science (p. 301)		

Index

- Academic standards and regulations, 71
 - graduate, 45
 - undergraduate, 22
- Accounting, 175, 178, 179
- Accounts, Office of Student, 70
- Accreditation, 8
- Add/drop, 73
- Administration, university, 373
- Admission, 8
 - early, 15
 - early decision, 15
 - graduate, 35
 - graduate readmission, 36
 - international student, 49
 - nondegree status, from, 18, 36, 48
 - part-time undergraduate, 18
 - readmission, 18
 - School of International Service, 17
 - transfer, 17
 - undergraduate, 15
 - Washington College of Law, 198
- Advanced placement, 17
- Advancement to candidacy, 43
- Advising
 - academic, 71
 - College of Arts and Sciences academic, 82
- All but dissertation (ABD) master's, 46
- Alumni audit, 75
- American Politics, 204
- American Studies
 - courses, 233
 - programs, 83
- Anthropology
 - courses, 234, 235
 - programs, 84, 85
- APEL, 221
- APEL courses, 343
- Archaeology
 - See Anthropology
- Art
 - courses, 237
 - facilities for, 6
 - programs, 87
- Art and Architecture, Washington Semester, 226
- Art, Studio, 91
- Arts and Sciences, The College of, 81
- Arts Management programs, 152
- Assistantships, 61
- Associate in Arts degree, 19, 82
- Athletics
 - See recreation; health and fitness
- Attendance, class, 77
- Audio technology
 - courses, 308
 - programs, 93
- Auditing, 74
 - alumni program, 75
 - undergraduate program, 74
- Automobiles
 - See transportation
- Bachelor of General Studies, 82
- Bachelor's degrees, 19
- Bachelor's/master's degrees, 19
- Banking facilities, 70
- Beijing Semester, 228
- Biochemistry
 - See Chemistry
- Biology
 - courses, 241
 - programs, 94
- Board charges, 51
- Botany
 - See Biology
- Broadcast Journalism, 103, 106
- Brussels Semester, 227
- Buenos Aires Semester, 228
- Bursar
 - See Student Accounts, Office of
- Business Administration
 - courses, 244
 - programs, 173
- Business Administration, Kogod College of, 173
- Business and Economic Communication, National Center for, 229
- Business Council for International Understanding (BCIU) Institute, 229
- Business Management Information Systems, 175
- Calendar, 7, 13, 75
- Campus, 5, 7
- Campus Ministries, 66
- Cancellation of charges, 53
- Cancellation of classes, emergency, 76
- Cancellation of courses, 77
- Career Services, 231
- Certificate programs, 223
- Certificates, noncredit, 224
- Certification of enrollment, 72
- Chemistry
 - courses, 254
 - programs, 98
- Child Development Center, 68
- Chinese
 - See Language and Foreign Studies
- Cinema Studies, 139
- Class attendance, 77
- Class periods, 76
- Class standing, undergraduate, 22
- Class, emergency cancellation of, 76
- CLEG (Communication, Legal Institutions, Economics, and Government), 202
- CLEP (College Level Examination Program), 17
- College Entrance Examination Board (CEEB), 16, 17
- College Mathematics and Quantitative competency, 21
- College Writing and English competency, 21
- Commencement, 73
- Communication
 - courses, 258
 - programs, 102
- Communication, International, 191
- Communication, Legal Institutions, Economics, and Government (CLEG), 202
- Community Studies
 - courses, 336
 - programs, 221
- Comparative Politics, 204
- Competency requirements, 21
- Comprehensive examinations, 43
- Computer Science and Information Systems
 - Computer science courses, 301
 - Information Systems courses, 319
 - programs, 109
 - See also Business Management Information Systems
 - See also Statistical Computing
- Computing Center, 6
- Conduct, code of student, 77
- Conduct Council, 78
- Confidentiality of student records, 77
- Conflict Resolution, Peace and, 189

- Consortium of Universities, The, 7
 - libraries, 74
 - registration, 74
- Continuing Studies programs, 221
- Cooperative Education
 - courses, 233
- Cooperative Education Program, 55, 225
- Copenhagen Semester, 227
- Counseling, personal, 67
- Course numbering system, 75
- Creative Writing, 142
- Credit for Life Experience, 221
- Credit-hour requirement
 - graduate, 43
 - undergraduate, 21
- Credit-hour values, 76
- Criminal justice
 - See Justice, Law, and Society
- Dance programs, 147
- Dean's list, undergraduate, 24
- Defense and Foreign Policy, 190
- Degree requirements
 - graduate university, 43
 - undergraduate university, 20
- Degrees, undergraduate, 19
- Degrees Conferred, 1988-1989, 9
- Design, 89, 91
- Development Banking, 117
- Development Management, 193
- Dining services, 70
- Disabilities
 - services and program accessibility for students with, 68, 78
- Dismissal
 - graduate academic, 45
 - undergraduate academic, 22
- Dissertations, 44
- Distributed Science, 130
- Dormitories
 - See housing
 - See residence halls
- Eagle, The*, 70
- Economic Communication, 108
- Economic Policy Semester, Washington, 226
- Economic Policy, International, 190
- Economic Policy, Washington Semester in, 114
- Economics
 - courses, 263
 - programs, 114
- Economics and International Economic Policy, 190
- Economics, and Government; Communication,
 - Legal Institutions, (CLEC), 202
- Education
 - courses, 268
 - programs, 120
 - See also Mathematics Education
 - See also Science Teaching
- Engineering
 - See pre-engineering
- English
 - See English Language Institute; Literature
- English Competency and College Writing, 21
- English Language Institute, 50, 228
 - courses, 341
- English language requirement
 - for international students, 49
- Enrollment, 1988-1989, 9
- Environmental Science, 95
- Environmental Toxicology, program, 97
- Equivalency diplomas, 17
- Evaluation of progress, undergraduate, 22
- Examinations
 - final, 75
 - graduate comprehensive, 43
- Faculty, 5, 7
 - adjunct, 355
 - College of Arts and Sciences, 81
 - full-time, 345
 - research, 374
 - School of International Service, 183
 - School of Public Affairs, 199
- Fees, 51
 - undergraduate application, 15
- Fellowships, 61
- Fields of study, 11, 19
 - changes in graduate, 46
 - changes in undergraduate, 20
- Film and Video, 107, 141
- Finance, 175, 176, 178
- Financial aid, 7, 53
 - American University, 56
 - federal, 55
 - graduate, 54, 61
 - state, 56
 - undergraduate, 53
 - veterans', 62
- Financial Management, Center for Public, 213
- Food service
 - See dining services
- Foreign Language and Communication Media, 105, 135
- Foreign policy
 - See International Service
- Foreign Policy Semester, 186, 226
- Foreign student information (See International student in formation, 49
- Fraternities, 70
- French, 133, 136, 137
- French/West European Area Studies, 135, 185
- Freshman Forgiveness, 23
- General Education Program, 22, 27
- General Studies, 82, 222
- German, 133, 136
- German/West European Area Studies, 135, 185
- Government
 - courses, 311
 - programs, 201
 - See also Washington Semester Programs
- Grade-point average, 72
 - graduate, 43
 - undergraduate, 21
- Grades
 - changes in, 72
- Grading system, 71
- Graduate credit for undergraduates, 23
- Graduate Student Council, 69
- Graduate study, 35
 - College of Arts and Sciences, 81
 - School of Public Affairs, 199
- Graduation, 73
- Grants, 55, 56, 57, 62
- Handicapped
 - See disabilities
- Health and Fitness
 - courses, 306
 - programs, 126
- Health Center, Student, 68
- Health Fitness, National Center for, 70
- Health insurance

- for international students, 49
- student, 68
- Health/Fitness Management, 126
- Hebrew
 - See Language and Foreign Studies
- Hindi
 - See Language and Foreign Studies
- Hindu Tradition, History of Religions, 155
- History
 - courses, 280
 - programs, 127
 - university, 7
- Holidays, 75
- Honors Program, University, 24
- Honors, graduation, 25
- Housing, 67
 - off-campus, 68
 - See also residence halls
- Housing charges
 - See residence hall charges
- Human Resource Development, 212
- Human Resource Management, 176, 178
- Human subjects, protection of, 45
- Immunizations, 78
- Incomplete grades, 72
- Independent reading and study courses, 76
- Information Center, 65
- Information Systems and Computer Science
 - Information systems courses, 319
 - programs, 109
- Institute for Learning in Retirement, 224
- Insurance
 - international student health, 49
 - student health, 68
- Interdepartmental Science programs, 130
- Interdisciplinary Studies, 82, 217
 - courses, 342
 - See also majors, undergraduate
- Interlibrary loan, 6
- International Communication, 191
- International Service
 - courses, 287
 - programs, 183
 - See also study abroad
- International Service, School of, 183
- International student information, 49
- International-Intercultural Student Services
 - Office of, 65
- Internships
 - See individual teaching units
- Italian
 - See Language and Foreign Studies
- Japanese
 - See See Language and Foreign Studies
- Jewish Studies
 - courses, 293
 - programs, 131
- Journalism
 - See communication
- Journalism Institute, Washington, 227, 229
- Journalism Institute for High School Students, 106
- Journalism Semester, Washington, 104, 207, 226
- Judicial boards, 66
- Justice Semester, Washington, 226
- Justice, Law, and Society
 - courses, 337
 - programs, 205
 - See also Sociology: Justice
- Key Executive Program, 211, 212
- Kogod College of Business Administration, 173
- Laboratories, 6
- Language and Area Studies, 134, 185
- Language and Foreign Studies
 - courses, 295
 - programs, 132
- Latin
 - See Language and Foreign Studies
- Latino Institute, 222
- Law
 - See CLEG
 - See Prelaw: Justice, Law, and Society
 - See Washington College of Law
- Law and Organization, International, 189
- Learning disabled program, 16
- Learning Services Center, 67
- Leave of absence
 - graduate, 46
 - undergraduate, 23
- Libraries
 - Consortium of Universities, 74
- Library
 - law, 8
 - university, 6, 8
- Linguistics, 137
- Literature
 - courses, 272
 - programs, 138
- Living-Learning Center, 83
- Load
 - graduate academic, 46
 - undergraduate academic, 22
- Loans, 55, 56
- London Semester, 203, 227
- Madrid Semester, 228
- Mail service, 70
- Maintaining matriculation, 46
- Majors
 - College of Arts and Science, 81
 - declaration of, 19
 - interdisciplinary, 20
 - undergraduate, 19
 - undergraduate double, 20
 - undergraduate requirements, 19
 - See also fields of study
- Marketing, 176, 178, 179
- Mathematics
 - courses, 303
 - programs, 143
- Mathematics and Quantitative competency,
 - College, 21
- Mathematics Education, 146
- Meal service
 - See dining services
- Media Center, 6
- Medicine
 - See premedical program
- Ministries, Center for Campus, 66
- Minority Affairs, Office of, 65
- Minors, 20
 - College of Arts and Sciences, 82
- Music
 - courses, applied, 336
 - facilities for, 6
 - programs, 147, 148, 149, 150
- National Center for Business and Economic
 - Communication (NCBEC), 229
- Newspaper, student, 70

- Noncredit programs, 224
- Nondegree
 - academic standards, 47
 - admission to degree status, 48
 - admission to graduate degree status, 36
 - admission to undergraduate degree status, 18
 - enrollment, 47
 - international student enrollment, 49
 - registration, 74
 - registration, 47
 - study, 47
- Nonthesis options, 44
- Off-campus offerings, 224
- Off-campus registration, 74
- Paris, programs in, 228
- Parking
 - See transportation
- Pass-fail, 72
 - undergraduate, 23
- Payment of tuition and fees, 52
- Peace and Conflict Resolution, 189
- Peace and Conflict Resolution, Washington Semester in, 226
- Performing Arts
 - courses, 331
 - programs, 147
- Philosophy
 - courses, 325
 - programs, 152
- Photography
 - See communication
- Physical Education
 - See Health and Fitness
- Physics
 - courses, 309
 - programs, 155
- Poland, program in, 228
- Policy Analysts, 204
- Political Economy, International, 188
- Political science
 - See government programs
- Pre-engineering programs, 157
- Prelaw program, 158
- Premedical program, 159
- Preprofessional programs, 83
- Prerequisites, course, 76
- Probation
 - graduate academic, 45
 - undergraduate academic, 22
- Procurement Management, 181
- Professional Development, 224
- Protection of human subjects, 45
- Psychological and Learning Services, Center for, 67
- Psychology
 - courses, 322
 - programs, 160
- Public Administration, 204
 - courses, 315
 - programs, 209
- Public Affairs, The School of, 199
- Public Communication, 108
- Public Financial Management
 - courses, 279
- Public Financial Management, Center for, 213
- Public Relations
 - See Public Communication
- Radio, 6, 70
- Readmission
 - graduate, 36
 - undergraduate, 18
- Real Estate and Urban Development, 176, 179
- Real Estate Center, 174
- Records
 - confidentiality of student, 77
 - student, 72
- Recreation
 - facilities for, 7
- Registration, 73
 - changes in, 73
 - consortium, 74
 - international student, 50
 - late, 73
 - nondegree, 74
 - off-campus, 74
 - payment for, 52
 - student responsibility for, 73
- Regulations
 - graduate academic, 45
 - undergraduate academic, 22
- Religion
 - courses, 328
 - programs, 152
- Religious services
 - See Campus Ministries
- Repetition of courses, 72
- Residence Hall Advisers, 62
- Residence Hall Association, 69
- Residence halls, 8
 - charges for, 51
 - See also housing
- Residence requirement
 - graduate, 43
 - undergraduate, 21
- Residential Life, Office of, 67
- Responsibilities, student, 77
- Return-to-School programs, 221
- Rights, student, 77
- Rome Semester, 227
- Russian, 133, 136, 137
- Russian/USSR Area Studies, 135, 185
- SAT (Scholastic Aptitude Test), 16
- Scholarships, 56, 58
 - Washington College of Law, 62
- Science Teaching, 130
- Social Policy, Philosophy and, 154
- Sociology
 - courses, 329
 - programs, 164
- Sociology: Justice, 167, 209
- Sororities, 70
- Spanish, 133, 135, 136, 137
- Spanish/Latin American Area Studies, 135, 185
- Special Education: Emotional Disturbance, 123
- Special Education: Learning Disabilities, 123
- Sports
 - See Health and Fitness; recreation
- Standards
 - graduate academic, 45
 - undergraduate academic, 22
- Statistical Computing, 170
- Statistics
 - courses, 304
 - programs, 168
- Statute of limitations, graduate, 46
- Stops, financial, 52
- Student Accounts, Office of, 70
- Student Activities, Office of, 66
- Student Confederation, 68
- Student Council, Graduate, 69
- Student Development in Higher Education, 123

Student Life, Division of, 65
 Student organizations, 68
 Student records, confidentiality of, 77
 Student responsibility, 73
 Student Volunteerism and Community Service,
 Center for, 66

Study abroad, 227
 courses, 343
 undergraduate, 25
 Study at another institution
 graduate, 46
 undergraduate, 23

Summer programs, 229
 Summer Seminar, Washington, 229
 Summer study abroad, 229

Talon, The, 70

Taxation, 180

Teaching English to Speakers of Other
 Languages, 138

Technical Writing, 140, 142

Television, student, 70

Theatre programs, 147

Theology
 See religion

Theses, 44

TOEFL (Test of English as a Foreign Language), 17

Tools of research, 43

Transcripts, 72

Transfer admission, 17

Transfer of credit
 from graduate study at another institution, 46
 graduate, 36
 nondegree, 48
 nondegree to graduate, 36
 undergraduate, 18
 undergraduate from nondegree, 18
 undergraduate from study abroad, 25
 undergraduate study at another institution, 23

Translation, 136, 137

Transportation, 70

Trustees, 376

Tuition and fees, 51

 payment of, 52
 Tuition Exchange Program, 57

Undergraduate study, 15

 College of Arts and Sciences, 82
 School of Public Affairs, 200

University administration, 376

University competency requirements, 21

University degree requirements

 graduate, 43

 undergraduate, 20

University Honors Program, 24
 courses, 233

Vacations, 75

Vienna Semester, 228

Visa requirements

 for international students, 49

Visual Media program, 104

WAMU-FM, 6, 70

Washington College of Law, 62, 197

Washington Economic Policy Semester, 226

Washington Journalism Institute, 227, 229

Washington Journalism Institute for High
 School Students, 106

Washington Journalism Semester, 104, 226

Washington Justice Semester, 226

Washington Semester courses, 322

Washington Semester in American Government, 202, 226

Washington Semester in Art and Architecture, 226

Washington Semester in Economic Policy, 114, 226

Washington Semester in Peace and Conflict
 Resolution, 226

Washington Semester Program, 226

Washington Semester Program in Justice, 207

Washington Semester Summer Internship, 227

Washington Summer Seminar, 203, 227, 229

WAVE-TV, 70

Withdrawal from the university, 75

Women's Studies

 courses, 342

 programs, 172

Work-Study Program, College, 55, 62, 226

World Capitals Program

 See study abroad

Writing

 See also Literature

Writing and English competency, College, 21

Writing, Creative, 142

Writing, Technical, 140, 142

WVAU-AM, 6, 70

Yearbook, student, 70

Zoology

 See Biology

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